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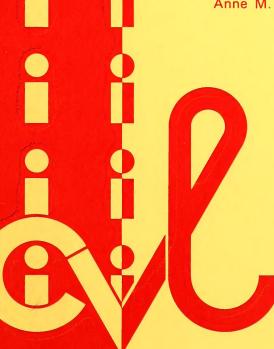


JOINT HIGHWAY RESEARCH PROJECT

JHRP-81/9

AN INVESTIGATION OF THE FINAL CONSTRUCTION RECORD PROCEDURE FOR THE INDIANA STATE HIGHWAY COMMISSION

Anne M. Bigane





INDIANA STATE

PURDUE UNIVERSITY **HIGHWAY COMMISSION**



Final Report

AN INVESTIGATION OF THE FINAL CONSTRUCTION RECORD

PROCEDURE FOR THE INDIANA STATE HIGHWAY COMMISSION

TO: H. L. Michael, Director

Joint Highway Research Project

July 1, 1981

FROM: Donn E. Hancher, Research Engineer

File: 9-11-11

Project: C-36-67K

Joint Highway Research Project

The attached report is the Final Report on the JHRP Study "An Investigation of the Final Construction Record Procedure for the Indiana State Highway Commission." The report has been authored and the research conducted by Anne M. Bigane, under my direction.

Objectives of the research were to review the ISHC 1970 Construction Record Guide plus supporting data, review the current methods used in the six district offices to complete final construction records plus seek recommendations for improvement, and to develop a revision of the old guide which incorporates approved improvements. All three objectives were attained and are detailed in the report. The major effort was in developing the revised guide and the proposed revision is in the appendix of the report.

The findings of the Study have been reviewed and approved by the ISHC Construction Division and we will continue to work with them on implementation of the results.

Respectfully submitted.

Donn E. Hancher Research Engineer

DEH: kic

G. K. Hallock

cc:	A. G. Altschaeff1 W. L. Dolch R. L. Eskew	D. E. Hancher K. R. Hoover J. F. McLaughlin	K. C. Sinha C. A. Venable L. E. Wood
	J. D. Fricker G. D. Gibson	R. D. Miles P. L. Owens	E. J. Yoder S. R. Yoder
	W. H. Goetz M. J. Gutzwiller	G. T. Satterly C. F. Scholer	

R. M. Shanteau

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Final Report

AN INVESTIGATION OF THE FINAL CONSTRUCTION RECORD PROCEDURE FOR THE INDIANA STATE HIGHWAY COMMISSION

by

Anne M. Bigane Graduate Instructor in Research

Joint Highway Research Project

Project No.: C-36-67K

File No.: 9-11-11

Prepared as Part of an Investigation

Conducted by

Joint Highway Research Project Engineering Experiment Station Purdue University

in cooperation with the

Indiana State Highway Commission

Purdue University West Lafayette, Indiana July 1, 1981

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ACKNOWLEDGEMENTS

The author would like to convey her appreciation to the Indiana State Highway Commission for their financial support of the research.

She would also like to express her gratitude to her major professor, Dr. Donn E. Hancher, for the assistance in selecting a research topic and its funding, and for his guidance and encouragement throughout both the research and the author's Master's degree coursework.

Finally, the author would like to thank all of the Indiana State Highway Commission Personnel who provided her with an ample amount of data and suggestions about the research topic.

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TO THAT

ABSTRACT

Bigane, Anne. Masters, Purdue University, May 1980. An Investigation of the Final Construction Record Procedure for the Indiana State Highway Commission

Upon completion of a project for the Indiana State
Highway Commission, all construction pay quantities must
be documented and checked. This material and other
pertinent information constitute the Final Construction
Record. The information in this record is used by several
departments including Accounting, Design and Development.
Currently the Final Construction Record is prepared
using the Indiana State Highway Commission 1970 Construction Record Guide for Road, Bridge, Maintenance and
Traffic Contracts. Included in this guide are examples
of all of the necessary forms and procedures needed to
verify the final construction quantities.

The Final Construction Record is prepared by the Project Engineer or Supervisor and then submitted to the District Review Officer for review. The reviewed record is then forwarded to the Central Office in Indianapolis for final approval. The Final Construction Record is greatly relied upon and essential to the acceptance of the final pay quantities for an ISHC construction



project. Because of the importance of the Record and its varied uses, it is essential that the material in it be presented in the most accurate and efficient manner. The primary objective of this study was to evaluate and update the current Construction Record Guide.

In order to attain the objective of the investigation, several goals were identified. The first goal was to review the ISHC 1970 Construction Record Guide for Road, Bridge, Maintenance and Traffic Contracts thoroughly. The second goal was to review the current methods of completing the Final Construction Record in each of the districts. This was accomplished through interviews with the staff of the ISHC Construction Division and with the District Review Officers for each of the six districts. The information obtained through these interviews was compiled and discussed with the ISHC Construction Division Personnel. The final recommendations made by the researcher are contained in this report.

The final recommendations were compiled in the form of the <u>Construction Record Guide</u>, 1981 Revision attached as an appendix of this report.



CHAPTER 1

Every year the Indiana State Highway Commission contracts for the construction of many different types of projects. These projects range from the installation of new traffic signals to the expansion of the network of roads and highways that criss-cross the state. Upon completion of every project, regardless of size, a Final Construction Record is prepared by the Project Engineer/Supervisor.

This Record has several important functions. First, the documentation of construction quantities and work done is used to determine the final pay quantities and the completed cost of the project. Secondly, the contractor will not receive final payment until the Final Construction Record is completed and reviewed. Finally, the design and development departments use the cost information provided by the Record as a reference in the preparation of future contracts and budgets.

If the Record is not completed and reviewed within 180 days from the time of acceptance of the project, the ISHC must pay interest at a rate set by the State



Legislature on the unpaid balance, until it is paid.

1.1 Justification

Every Project Engineer/Supervisor receives a copy of the ISHC 1970 Construction Record Guide to be used as a reference in the preparation of the Final Construction Record for a project. This guide is set up in the form of a sample Final Construction Record, with examples of the various forms and how they should be completed.

The major proportion of the types of projects completed by the ISHC has drastically changed in the past decade. Through the early 1970's, the ISHC was still appropriating the greatest part of its budget for the new construction of the Interstate and other State Highways in Indiana. This network has been virtually completed and now the focus of the construction done by the ISHC has shifted to maintenance and repair of this network. This shift in the type of work has brought with it a different set of construction items; the Construction Record Guide should be revised to reflect this changing focus. It is hoped that the conclusions and recommendations made in this study will help the ISHC to create a more useful tool for its field employees.



1.2 Goals of the Study

During early interviews with the ISHC Construction Division Personnel several goals were identified as essential to the attainment of the objectives of this study.

The first goal was to thoroughly review the existing Construction Record Guide. It was important to have a complete understanding of the current procedure before typing to recommend any changes.

The second goal was to develop a set of recommendations for improvements in the 1970 Construction Record Guide, and the procedures associated with it.

The third goal was to incorporate these recommendations with the existing material and develop a draft revision of the Construction Record Guide.

1.3 Methodology

The Final Construction Record is completed by the Project Engineer/Supervisor. After the Record has been compiled, it is sent to the District Office to be reviewed by the District Review Officer. Since the District Review Officers have the greatest exposure to a variety of projects, it was decided that interviews with these six individuals would provide the best feedback on the Construction Record Guide as it exists today. They review many types of projects every year. It is also their



responsibility that the Final Construction Record be prepared correctly. Any shortcomings in the existing Guide would be most apparent to those who must work with it on a day-to-day basis.

The following questions were used in each interview:

- What do you think about the <u>Construction Record</u> Guide?
 - a) Unnecessary sections?
 - b) Repetitions?
 - c) Needed sections?
 - d) Unnecessary forms?
- 2. Can you suggest any changes that might improve the Guide? Help to streamline the paperwork?
- 3. Do you feel that the Guide is an adequate tool in the preparation of a Final Construction Record?
- 4. Do you feel periodic workshops on the preparation of the Final Construction Record would be beneficial?
- 5. Can you suggest any changes in the current quantity pay units on any items? Is more time spent checking the quantities than installing the item? Would a different unit be easier to measure and control?

In all of the interviews, the researcher stressed the fact that the Review Officer's opinions and recommendations would be kept in strict confidence. These interviews



provided a great deal of valuable information and suggestions for the improvement of the <u>Construction Record</u>

<u>Guide</u>. The results of these interviews will be presented in Chapter Two of this report.

Finally, after all of the suggestions from the interviews were compiled, the researcher prepared a revised draft of the Construction Record Guide. Throughout the preparation of this revision, the researcher kept in constant contact and received much input from the Central Office staff of the Construction Division. A complete copy of the Draft Revision accompanies this report as a supplementary appendix.



CHAPTER 2

RESULTS OF THE INTERVIEWS

The researcher traveled to each of the six District Offices of the Indiana State Highway Commission. The District Review Officer is responsible for reviewing the Final Construction Record submitted by the Project Engineer/Supervisor. This review consists of checking all of the computations contained in the Record and preparation of the required material certifications. The reviewed Record is then forwarded to the Central Office of the Construction Division in Indianapolis. The Central Office then issues the final payment to the Contractor. The District Review Officers were interviewed because it was felt that they had the greatest exposure to the Construction Record Guide and its shortcomings would be most apparent to them. The questions listed in Section 1.3 of this report were asked of each of the District Review Officers.

The overall format of the Construction Record Guide was approved by all of the District Review Officers. They felt it could serve as a valuable tool to the Project Engineer/Supervisor if it was revised and updated. Every PE/PS should receive a copy of the Guide at the beginning



of a project. This was especially stressed in the case of city or county project engineers, who often have much trouble completing the Final Construction Record. Several Review Officers stated this was due in part to an unfamiliarity with ISHC forms, and often was due to the high turnover rate of municipal employees during the project. The researcher recommends that the ISHC request that the turnover of city and county staff on state projects be kept at a minimum. Periodic workshops incorporating project engineers from all sources, on the preparation of the Final Construction Record would also help alleviate this problem.

The 1970 Construction Record Guide contains a great deal of spelling and mathematical inaccuracies which make it difficult to use. Inexperienced project supervisors would have trouble following examples that contained these types of errors. Another common complaint was the fact that the Guide contained several forms which have been revised since the original publication, but were never replaced in the Guide. The revised forms contained substantial differences in several cases. These errors were corrected in the revised Guide.

The District Review Officers also commented on the fact that many Project Engineers were copying sketches from the field books onto ISHC forms. Noting that the field book is already part of the Final Construction



Record, this repetition is unnecessary. Every time a sketch is transferred from a set or original notes, the chances for errors increase substantially. These copying errors slow down the reviewing process. Original notes may be kept in a bound field book or on an approved ISHC form; reference in the Final Construction Record need then only be made to the original location.

Several Construction Record forms were deemed unnecessary by the District personnel. They were the IC 627A, IC 615A, IC 611A and IC 611B. The IC 627A and 615A are modifications of the 627 and 615. The information contained on these forms can be found in alternate places in the Final Construction Record. The researcher concurs and recommends the elimination of these forms.

Currently there is a fairly complicated procedure for rounding off calculations and measurements to the proper number of significant figures listed in the front of the Construction Record Guide. All of those interviewed felt that a less complex system based on the dollar value of the associated unit price would be more appropriate. Items with unit prices under \$10.00 are rounded to the nearest whole unit. Items between \$10.00-\$100.00 are carried to the nearest tenth of a unit. Any item over \$100.00 is carried to the nearest hundredth of a unit. The researcher agreed that a system based on unit cost would be easier to understand and use.



Several other recommendations were made by the District personnel. The IC 642 is a form which summarizes all of the financial information about the project.

Multiple copies of this form are often required. They recommend that a listing of when more than one copy is necessary be included in the Guide. Additionally, several review officers requested that examples of Bridge Deck Repair and Traffic items and their required documentation be included also. These types of items are used with increasing frequency as the focus of highway construction by the ISHC has shifted within the last few years. The researcher also concurs with these recommended revisions.

As to the issue of quantity pay units, the District Review Officers felt that the units currently being used were adequate. They could not suggest any changes or modifications in this area.



CHAPTER 3

CHANGES IN THE 1970 CONSTRUCTION RECORD GUIDE

After speaking with the District Review Officers and other ISHC Construction Division personnel, the following changes were compiled in the <u>Construction Record Guide</u>, 1981 Revision.

All numerical, transposition and misspelling errors were corrected. In the General Instructions provided before the Sample Record, the description of "original notes" was expanded upon to help eliminate the recopying of sketches and figures for the Final Record. All documentation requires signatures and dates of the appropriate personnel.

The present system of determining the proper number of significant figures is more complicated than it needs to be. The system in the revision is based on dollar value of the unit price of every item.

Since 1970 the Division of Construction has taken over the administration of all construction contracts.

These include those formerly handled by the Divisions of Maintenance and Traffic. All reference to these Divisions were eliminated from the Guide.



The ISHC form M-231 for Bridge Widening and Culvert Extension and all references to it were removed from the Guide since this form is not used in the Final Construction Record.

The description of transmittal of the final reviewed Record to the Central Office was expanded upon to include a list of all pertinent material.

The form I.C. 699 has been revised since the original publication. This revision contains several significant changes. The explanation of the form was expanded to include these differences. Among these changes is the inclusion of the number of as-built plans, field books and cross-sections in the remarks section of the form.

For all excavation quantities, anytime the plan quantities will be used, the contractor's signature is suggested to confirm that effect.

B Borrow for Structure Backfill should include references to or a copy of detailed computations, especially when the quantity differs from the plans.

For Pavement Removal items computations and original notes should contain the names of all pertinent highway employees.

The amount of pure Calcium Chloride must be deducted from the quantities of compacted aggregate for all Aggregates and Bituminous Mixes. All pure Calcium Chloride and pug mill reports must then be included in the Final Construction Record.



The Construction Record forms IC 627A, IC 615A, IC 611A and IC 611B were eliminated. The IC 611A still remains in the revised guide as an example only, since the information contained on it is still needed. This information will be found in the field book from this time on.

The explanation for pipe structure items was expanded to include reference to the IC 612B form, which summarizes all structure pay quantities. These include catch basins, manholes, end sections, class "A" concrete, steel, etc.

Original notes and sketches of sub-surface drain runs are to be taken daily and totaled in the field book.

This information is placed in summary form only in the Final Construction Record. The copying of original notes is to be eliminated as much as possible.

The pay quantities for Riprap were changed to include a choice between the ton or square yard.

Field measurements for Paved Side Ditches must include not only the lineal feet of ditch but also the number of lugs, toewalls and the total pay length.

The original notes for all Signs and Barricades shall be maintained current throughout the project. The movement and/or reusal of signs must be noted and done so in accordance with Article 801.14 of the 1980 Specifications. Original notes shall include a sketch of the location of the signs and barricades.



The explanation of the seeding items was corrected to include the proper reference to current forms and specifications. It was also noted that the Record must include a statement that the agricultural lime and fertilizer used under sodded areas has been deducted, since they are included in the sodding costs.

The explanation sheets for Steel and Timber Piles were combined. The Order for Piling, Form IC 226 shall be included in the Record also.

The excessive overrun and underrun item explanation was updated in accordance with current specifications.

Any change in unit price is negotiable and based only on that quantity of the item which exceeds a percentage set in the specifications. A copy of all worksheets and the Central Office cover letter shall be included in the Record for every change in the original contract.

The Engineer may permit the usage of "failed immediate usage material" which has already been incorporated into the work prior to the testing results which show that it has failed. Any deductions to be applied will be determined by the Failed Material Committee.

A reference to Article 715.12 of the 1980 Specifications was added to the Explanation of Additional Excavation Items.



A chart of when multiple copies of the IC 642
(Comparison of Estimates) are required was added. Extra
Work Agreements items shall include a description in
addition to the approval date on the IC 642.

The IC 654 (Record of Construction) has been revised and eliminates the former IC 654 and the M-269. The explanation sheet was corrected to reflect this change. A major item was also defined to be any item in excess of 5% of the total contract.

The Explanation sheet for the IC 632 (Liquidated Damages) was rewritten to more completely explain the revised form and the proper procedures for completing these forms.

Additionally, several new sections were added to the Guide. These were the IC 728 (Controlling Dates in Final Estimate Preparation for Computing Interest Due the Contractor), the documentation of Alternate Bid Items, and examples of Bridge Deck Repair and Traffic items.



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CHAPTER 4

CONCLUSIONS AND RECOMMENDATIONS

The major goal for this study was to review the ISHC 1970 Construction Record Guide for Road, Bridge, Maintenance and Traffic Contracts and draft a revised version of the Guide. The preceding chapters of this report have listed many of the recommendations made by the District Review Officers as to areas which could be improved. These improvements will help the Project Engineer/Supervisor in the preparation of the Final Construction Record and the District Review Officer in the review of the Record. Listed below are previously mentioned recommendations by ISHC personnel and some additional recommendations made by the researcher:

- Make the corrections necessary to eliminate all spelling and mathematical errors contained in the existing Guide.
- Update all forms in the Guide so that the most current version of every form is available.
- Require the Project Engineer/Supervisor to reference his sketches whenever possible. Avoid recopying these skethces onto ISHC forms.



- 4. Eliminate the Construction Record forms IC 627A, IC 615A, IC 611A and the IC 611B since the information on these forms is contained elsewhere in the Record.
- 5. Eliminate the complicated method of rounding to significant figures, and use a method based on the unit price of the item. All calculations should be made in pay quantity units.
- 6. List a general form of when more than one copy of the IC 642 is required on a project.
- 7. Add a Bridge Deck Repair and Traffic Section.
- Add a section to the Guide which shows an example of the documentation necessary for alternate bid items.
- Include a copy of the IC 728, which contains a list of the controlling dates in Final Estimate Preparation for computing interest due the contractor.

All of the recommendations listed above were incorporated into a revised version of the <u>Construction</u>

<u>Record Guide</u> contained as a supplementary appendix to this report. In developing this revision a completely new original was made to help facilitate the printing of a new Guide by the Construction Division of the ISHC.



LIST OF REFERENCES



LIST OF REFERENCES

- Indiana State Highway Commission. 1970 Construction Record Guide for Road, Bridge, Maintenance and Traffic Contracts.
- Indiana State Highway Commission. $\underline{\text{Standard Specifications}}$, 1979.



APPENDIX

CONSTRUCTION RECORD GUIDE 1981 REVISION

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CONSTRUCTION RECORD CUIDE

General Information

The purpose of a construction record is to set out, clearly and completely, computations to show the final amount of money to be paid to the contractor. The record will aid accounting by breaking down costs by projects, and by showing any costs which will be paid for by state funds only on contracts with federal participation. Incidental information supplied by the record will be used in preparing periodic reports and in planning future work.

Computations for each pay item in the contract should start from original notes, which show measurements for computing the quantity of units to be paid for. Original notes may be taken in a bound field book or on an appropriate construction record form. Some examples of original notes are: crossections in a field book for earthwork, sketches for removal items, weigh tickets for items paid by weight, etc. All original notes should be dated and identify those individuals who made the measurements and notes.

Starting from these original notes, the computations for each item should be so that they can readily be followed by a checker. To aid in following the computations; the final record should be completely cross indexed so that any quantity which is carried from one page to another can be easily identified and checked.

All pages in the record should be signed or initialed by the person who prepared them. If calculations are required, each calculation will be checked by someone other than the one making the original calculation. All checks will be initialed and dated, and a system of check marks will be used to show the extent of the check.

Erasures or overwriting are not acceptable in original notes. Errors should be corrected by neatly crossing out the erroneous data with a double light line and entering the correct data in the most logical place. All original notes should be included as a part of the record. Bound field books, by reference, may be considered a part of the record when they are submitted with it.

All pages in the construction record should be signed and dated by the employee who prepared, computed and checked them. This includes all original notes and field measurements in the Construction Record.





In this guide the use of the symbol shown means merely the omission of entries to show a complete continuity. It prevents the use of repetitive details in the guide, showing instead only guiding samples of the material required in a complete record.

Pages of the record should be numbered, using the item number as first page of a hyphenated number. This system will permit page numbering and cross referencing to be done as work on the record progresses.

The last numbered item which appeared in the proposal should be followed by pay items in the following order: items whose prices are established Specifications or Special Provisions, then items whose prices are established by Extra Work Agreements in the order of approval of the agreements.

Following these the record contains as numbered pages:

1.C. 626's in order of approval.

1.C. 642's.

M 39

1.C. 654's.

1.C. 635.

1.C. 632

1.C. 149's.

Explanation of Overruns and Underruns

For each item of the contract an explanation of underruns and overruns from the original contract must be made on the 1.C. 627 Form, as the case may be. Excavation items will not normally need to be broken down by balances, but location of major overruns or underruns must be identified. If there is not enough available space on the 1.C. 627 for explanation of a particular item, then the explanation should be continued on an 1.C. 615 following the 1.C. 627.

An approved Change in Plans, Form 1.C. 626, would be an acceptable explanation on the 1.C. 627, and they should be cross-referenced. If an item involved more than one 1.C. 626, the 1.C. 626's should be tabulated to show the total amount that is covered. Any remainder not covered by 1.C. 626 would require adequate explanation.

When making the explanation for an item, do not pick out one unit of an item that varies from the estimate by an amount approximately equal to the overrun or underrun for the whole item and explain the one variation when there are other sizable variations in the item. If there are several overruns and underruns, or differences that compensate, all of which are for the same reason, they should be grouped. This is particularly true of structures. On extra work agreements, explain the difference between the amount on the agreement and the amount placed.



Accuracy of Calculations

The degree of accuracy tabulation is furnished to show the required accuracy for measurements and calculation.

In rounding off, all quantities less than an exact split will be reduced to the next lower unit. And those more than exact split will be increased to the next larger unit. Exact splits will be rounded off to the closest even unit.

The degree of accuracy will be based on the dollar value of the bid item as shown below. All calculations and measurements will be carried to the next smallest unit until the final round off.

Bid Amount	Accuracy	
\$0 - 9.99	1 Unit	
\$10.00 - 99.99	0.1 Unit	
Over \$100	0,01 Unit	

PAINTING CONTRACTS

The original notes for bridge painting contracts should be entered in a field book. The record of the paint used on each structure should be shown along with a record of the measured thickness of the paint. The paint quantity by structures, should be carried directly to an 1.C 627 Sheet.



Materials to be Submitted with the Construction Record

Final Estimate, Form DAC-25: A final estimate is to be prepared by the District Office and submitted with the Construction Record. The estimate is to be made on Form DAC-25 in a manner similar to Progress Estimates. In the page headings the words "and Final" should be added after the estimate number. The amount of Liquidated Damages, if any, should be entered in the proper location in the summary of the estimate. A separate final estimate will be prepared for each project in the contract. This breakdown is the same as that for the Progress Estimate. The Controllers Office furnishes prepared forms for each breakdown of the estimates.

If Forms DAC-25 have not been furnished for any contract the Final Estimate will be made on the same forms that Progress Estimates are prepared on.

Material Record, Form IT 611: The Project File copies of the Material Records should be transmitted to the Division of Construction for all Contracts along with the Construction Record.

Transmittal to Central Office

The complete construction record with its supporting data and other material is to be transmitted to the Central Office after all of the Record is complete and checked. A transmittal letter should list the items transmitted, so that they can be checked by the receiver. The list should state the number of Construction Record Books and list such items as the field copy of daily reports, field notebooks, original survey book, correspondence file, weight tickets, and cross-sections.

The carrier of the Construction Record for a Contract should be instructed to deliver it to the Engineer of Office Administration, Room 1313, State Office Building and get the District copy of the transmittal letter receipted.

For all 'M' contracts the complete construction record with its supporting data which will include weight tickets, field books, BRC books, IT 611's and crossections, is to be submitted to the central office after the Record is complete and checked. A transmittal letter should list the items transmitted, so they can be checked by the receiver and a receipt signed by the receiver. The district files are not to be sent with the final Construction Record to the Central Office. The project files must be sent with the Construction Record.



Check Lists for Construction Record

This Check List is to be prepared and placed in the front of the Construction Record at the District Office. The column headed DO is to be used by the District Office. The column headed "CO" is to be used for Central Office checking.

Appropriate items are to be completed by using the code shown at the bottom of each page. The Form is to be signed by the <u>District Review</u>

Officer and all items which are completely checked under his supervision should be listed at the bottom of the last page. One or more items should be checked under his supervision on all contracts.

Forms should not be used which are older than the one revised November, 1978.

Some of the boxes in the form have "X's" in them. They mean that the item does not apply to the checking done in that column.

Include the number of field books, "as built" plans, and crossections to be included with the record under item 33. List under item 18, ic, 699, the names of all property owners from whom property releases are required.



Form I. C. 699 Rev. 11-78

Page 1 of 3

2M 2-79

CHECK LIST FOR CONSTRUCTION RECORD (To Be Inserted in Front of Construction Record)

		Type of Contract or Work CON PAVING, BRIDGE, \$	C. & BITCHINOUS
Con	tract No. <u>I- 0000</u>	Location FROM FIRST	
Pro	Ject No. <u>J-100-1(1)0</u>	MIAMI NORTH 1 M	ILE.
Str	ucture No.	Contractor GENERAL (CA	ISTRUCTION Co.
		USE CODE	AT BOTTOM OF PAGE
			D. O. C. O.
1.	is form 1. C. 608 complete including	checkers names?	Y
2.	Has an index been included?		Y
3.	Does cross-section plotting and area 25 percent check by District?	calculations have at least	Yx
4.	Have cut, excess cut, borrow pits and had a 100% check in the District Off	d excess fill computations	Yx
5.	Has fertilizer and lime used under so for on a statement signed by PE/PS?	od been deducted or accounted	y
6.	Have I. C. 627's been checked for: a) Breakdown by projects, structures	s, funding, etc.?	y
	b) Accuracy of plan and placed quant explanation?	tities, also signed	Y
7.	Change in Plans and Extra Work Agreem a) Have Forms 1. C. 115 and/or 1. C. significant overruns and underrun	626 boom cubmissed	У
	b) Have Forms I. C. 115 and/or I. C. Federal Aid Section on "S" Project	626 been sent to the cts?	X
3.	Have I. C. 642's been checked for: a) Accuracy of all quantities, unit	prices and ertensions?	У
	b) Breakdown by Proj., Str., Funding proposal?	, etc: as spli. in	Y
	c) Non-Part, work shown as a "Z" iter	m? (Federal Aid Contracts)	Ÿ

Y = Yes

N = No X = DNA



Form I. C. 699 Rev. 11-78 Page 2 of 3

- 9. Has the Final Estimate been checked for:
 - a) Date of first and last work?
 - b) Final quantities in agreement with 1. C. 642's?
 - Non-Participating work shown as "Z" item? (Federal Aid Contracts)
 - d) Signatures?
- Are Forms I. C. 225, Pile Driving Record & 1. C. 226, Order for Piling included when needed?
- 11. If materials ordered by the PE/PS were not used on the contract and were purchased from the contractor, has Form I. C. 625A been included with the new item?
- 12. Does the Final Construction Record include a separate Form 1. C. 654 for each Project and Structure?
- 13. a) Has resolvement of overrun of contract work days, completion date or open to traffic date been made?
 - b) Has Form M-39, with liquidated damages or damages sustained stated thereon, been signed by the contractor?
- 14. Has Form 1. C. 632 been properly prepared and signed?
- 15. Are copies of Form I. C. 639 and letter of acceptance in the Construction Record?
- 16. Has Form 1. C. 636A (Traffic Only) been submitted for each traffic installation to the District and Central Office Traffic Departments?
- 17. Has Clearance Information, Form M-232A been submitted?
- 18. Are Property Releases included and signed?
- 19. Has a check of all Weigh Tickets for Project and/or Contract No., accuracy, two signatures and percent of moisture been made?
- 20. Have As-Built plans for Bridges, Signs and Signals been forwarded to Central Office?
- 21. Have Shop Tracings been received?
- 22. Have Prestressed I-Beam reports been received?

c. o.
х

Y = Yes N = No

X = DNA



Form I. C. 699 Rev. 11-78

Page 3 of 3

		D. O.	C. O.
23.	Have pavement thickness reports been received?	Y	
	 a) Have deductions or adjustments been made for concrete thickness and/or placement of reinforcing steel where required? 	Y	
24.	Has a clearance letter releasing the contractor from all indebtedness been received from the railroad?	Χ	
25.	Has the control book been checked for any unresolved problems such as failed materials, claims, damage suits, etc.?	х	
26.	a) Have Original Survey books been returned to Central Office Records Department?	Υ	
	b) Have original cross sections been sent to Central Office when applicable?	Y	
27.	Have Bench Mark Tablets been set?	Y	
	a) Has Form I. C. 126, Final Description and Elevation of Bench Marks been distributed?	Y	х
28.	Has Form CR-2 been sent to Central Office?	Y	
29.	Has a material certificate been issued with all exceptions listed?	Y	
30.	Does the project file contain payrolls on all Federal Aid Projects?	Y	
31.	Has a Form P. R. 47 been submitted for contracts over \$500,000?	Y	
32.	Has Form I. C. 630, Interstate Certificate been signed?	Х	
33.	Remarks:		
	This Construction Record has received a complete review under my su and a detailed check has been made of items numbered: 4.5.7-9		
	29-36, 38, 39, 42, 45-49, 51-55, 69-68,	-	
	Harry Mark District Review Officer Date 3	1 DEC 6	.9

Central Office Review By: Date



Form I. C. 699 Rev. 11-78

Page 3 of 3

		D. O.	c. o.
23.	Have pavement thickness reports been received?	Y	
	 a) Have deductions or adjustments been made for concrete thickness and/or placement of reinforcing steel where required? 	Y	
24.	Has a clearance letter releasing the contractor from all indebtedness been received from the railroad?	Χ	
25.	Has the control book been checked for any unresolved problems such as failed materials, claims, damage suits, etc.?	x	
26.	a) Have Original Survey books been returned to Central Office Records Department?	Υ	
	b) Have original cross sections been sent to Central Office when applicable?	Y	
27.	Have Bench Mark Tablets been set?	Y	
	a) Has Form 1. C. 126, Final Description and Elevation of Bench Marks been distributed?	Y	х
28.	Has Form CR-2 been sent to Central Office?	Y	
29.	Has a material certificate been issued with all exceptions listed?	Y	
30.	Does the project file contain payrolls on all Federal Aid Projects?	Y	
31.	Has a Form P. R. 47 been submitted for contracts over \$500,000?	Y	
	a) Has a Form P. R. 47 been approved by FHWA?	Х	
32.	Has Form I. C. 630, Interstate Certificate been signed?	х	
33.	Remarks:		

This Construction Record has rec and a detailed check has been ma	eived a complete review under my supervision de of items numbered: 4.5,7-5,11-27,	
	15-49, 51-55, 60-68,	
	District Review Officer Date 31 DCC 69	
Central Office Review By:	Date	

Y = Yes N = No X = DNA



FORM 1 C 809 State Form 35487 REV, 11-66

INDIANA STATE HIGHWAY COMMISSION

6M 3-79

DIVISION OF CONSTRUCTION

CONS		ORD TO ACCOMPA		ESTIMATE ON	
Project No. I-10	0-1(1)0 Si	ructure No. 100-1-111	.1	Contract No. I-0000	
STATE ROAD No	100 N. I	Main St., Miami: 1:			
		(Location Control Pos	nta)	((ounty)	
WORK STARTED			20	January	, 1969
PAVEMENT COMPLE	TED	M-Manage-sea	30	September	, 1969
LAST WORK PERFOR	RMED		31	October	, 1969
CONTRACTOR Ge	neral Construc	tion Co., Hoosierv	lle, India	ina	
DISTRICT ENGINEER	Paul Jones				
PROJECT ENGINEER,	from 16 Dec.	1968 to 31 Dec.	19 69	John Doe	
PROJECT ENGINEER,	from	19to	19	(Name)	
ASST. PROJ. ENGR.,	from 2 Jan.	1969 to 15 Dec.	19 69	(Name) Richard Doe	
ASST. PROJ. ENGR.,	from 15 Jan.	1969 to 15 June	19 69	(Name) I. W. Brigham	
ASST. PROJ ENGR.,	from	19 to	19	(Name)	
	from	19 to	19	(Name)	
ASST. PROJ. ENGR.,	from 16 Jan.	19.69 to 30 Nov.		(Name) Bruce Doe	
INSPECTOR,			19 69	(Name)	
INSPECTOR,	from 15 May	1969 to 31 Oct.	19.69	Frank Perkins	
INSPECTOR,	from 1 June	1969 to 30 Sept.	19 69	T. R. Weaver	
INSPECTOR,	from 15 June	1969 to 15 Sept.	19 69	J. T. Scholer	
INSPECTOR,	from 15 June	1969 to 15 Sept.	_19_69	H.O. Booker	
INSPECTOR,	from	to	19	(Name)	
INSPECTOR,	from	19to	19	(Name)	
INSPECTOR,	from	19to	19	(Name)	
INSPECTOR,	from	to	19	(Name)	
INSPECTOR,	from	19to	19		
District Check INSPECTOR,	from	19to	19	Harry Mann	-
INSPECTOR,	from	19to	19	(Name)	
INSPECTOR,	from		19	(Name)	
CONSTRUCTION REC				(Name)	
PREPARED BY John	Doe	REVIE	WED BY	Harry Mann	



COMMON OR UNCLASSIFIED EXCAVATION

The Special Provisions will specify either "Contract Quantity Payment" or "Measured Quantities" for these and other grading items.

Contract Quantity Payment: Where "Contract Quantity" or "Plan Quantity" payment is specified, it will be necessary to take final cross sections of the roadway only as they are required to establish the reasonable accuracy of the planned quantities; and as they are required to make excavations deductions from borrow material.

In order to establish the reasonable accuracy of the plan quantities, cross sections should be taken every 500 feet. These should be plotted and the cut areas computed. If anyone of these areas varies from the planned area as much as 10 percent, an investigation should be made to determine if the planned quantity for the balance should be revised or if measured quantities should be substituted for plan quantities. If the average deviation of the measured areas from the planned areas for the entire contract exceeds two percent a similar investigation should be made.

To further check the accuracy of the plan quantity of excavation at least one balance should be completely computed from the cut areas shown on the cross sections. If the cross sections were plotted and the areas and volumes printed on the cross section sheet by a computer, the check of a balance may be done by making an addition of all of the parts which constitute the common or unclassified excavation in the balance.

Pages 1A-1 and 1A-2 show sample computations to justify "Contract Quantity Payment." The Record should contain a statement signed by the Project Engineer and Project Supervisory similar to that shown on page 1A-1 for any part of the job on which plan quantities are to be used. The contractors representative should sign the statement at this time also.

In balances where it is found that contract quantity payments are justified and where no borrow was used, no excavation deduction will be needed.

In balances where borrow is used, the cross sections which have been taken at 500 foot intervals should be examined to determine if fill deductions should be made. If it is found that fill deduction should be made, it will be necessary to take additional cross sections to measure the deductable material. Borrow balances should also be carefully inspected visually to determine if there are other areas which should be sectioned to measure.



Measured Quantities: Where 'Measured Quantities' are specified or found necessary by the check of plan quantities described previously the excavated quantities in each balance are to be computed on Form 1C-401. Any quantity measured separately from the main line should be added to the proper balance total. If "excess cut" or "waste" deductions are described below, are applicable to the roadway excavation, they should be made from the balance totals.

Computer computation of roadway excavation is now available. To obtain this service the final cross sections must be coded by District personnel. It will also be necessary for the original cross sections to be coded by District personnel unless the original cross sections were plotted for design by a computer. In the latter case the original cross sections will have already been coded.

In the event that computer computation is requested, computer plotting should also be requested. This is to make the final plotted sections available for examination and for making any necessary excavation deductions. Within limitations, the District can select the scale to which the plotting is made. No additional coding is necessary to obtain the computer plotting.

DEDUCTIONS

The following definitions are made to aid in understanding this discussion:

Authorized Cuts: All cut between slopes staked by the Engineer; also any authorized cuts beyond these slopes. These flattened slopes include those authorized at cut to fill transitions and others that may be authorized to help control erosion.

Excess Cut: All cuts performed on the right-of-way beyond the limits of authorized cuts.

Fill Waste: All fills placed in embankments outside of staked limits plus tolerance limits as defined in the specifications.

This applies to all excavated material which is suitable for fill but wasted either on or off of the right-of-way.

<u>Deductions</u>: That part of "fill waste" or "excess cut" which need not have been excavated in order to complete the work as staked or otherwise specifically authorized.

Computing Deductions: The location of slope stakes, as shown on the grade sheets, should be plotted on the cross sections. If fill extends beyond the slope stakes, the specified tolerance limits should also be plotted. Any authorized cut or fill beyond these limits should be explained and initialed on the cross section.



In waste balances, deductions will ordinarily be made from cut. In borrow balances they will ordinarily be made in fill. In balances with neither waste or borrow, deductions will be made from the lessor of "excess cut" or "fill waste." If the lessor cannot be determined by inspection of the cross sections, it will be necessary to compute both in order to determine which is the lesser quantity.

Fill deductions are to be made from the most expensive material used to the exclusion of the material. For example, if common or unclassified excavation was bid higher than borrow, fill deductions would be made from common or unclassified excavation up to the amount of "excess cut" which was made in the balance. Normally fill deductions will be from borrow.

Cut deductions will be from the class of excavation represented by the "excess cut."

On jobs where no material suitable for fills is wasted outside of the right-of-way limits, deductions may be determined by treating the entire contract as one balance. Obviously, if borrow is required "fill waste" should be deducted.

Where it is necessary to compute "excess cut", "fill waste", or both the computations should be made on Form 1.C. 401 with totals for each balance. No shrinkage factor is applied to deductions.



FORM I. C.—627 Rev 2-62 10M 8-80	CONST	ATE HIGHW.			_	***************************************
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40+00-52+80	1000	913		87		1-1
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CONSTRUCTION RECORD

I PHOJ NO. 100 STR. NO. 1 (1) 0 CONTRACT NO. 1 NO. 1

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BORROW

Compute the net volume removed from each pit on Forms 1.C 401. Use form 1.C. 615 to distribute each pit total to the balances.

The location of each borrow pit and the name of the owner should be shown in the field book, on the cross section sheets and on Form 1.C. 401. The field book should also contain a sketch of the pit's base line layout and notes concerning the bench marks used.



FORM 1. C.-627 Rev. 2-62 INDIANA STATE HIGHWAY COMMISSION CONSTRUCTION RECORD I PHOJ. NO. 100 SECTION 1000 STE NO. BAKROW LOCATION AND QUANTITY PLACED OVER- UNDER 9+90-26+40 25,712 25,559 153 2-1 210+40-40+00 50,316 50,388 2-1 40+00 - 52+80 25,316 24,812 504 2-1 ROAD PORTION 101,344 72 100,759 657 FILL MATERIAL FER FALANCE NO. 2 UNDERFLUN THE 153 CLS OF PEREOUS SHOWN HERE IN ADDITION TO FE CUS. OF COMPLEM EXCAUATION. THE SEE MY APPARENT PROFESAL FOR THIS DUILTENSE, AS WELL AS THE CHORREUM IN BALHARE No. 1. EXCEPT THAT THE SHKINIKAGE FACTOR WAS ABOUT 2% TOO HIGH FOR THE MATTERIAC WHICH CAME OUT OF THE BOTTOM OF BUREOU PIT. Elin Da

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FORM | C = -401 State Form 35927

PAGE No. 2-3

5M 3-79 INDIANA STATE HIGHWAY CO

I PROJ N	DRROW	1	STM. NO)			CONTRAC	No 2.	
STATIONS	END AREAS		SUMUFE	ND AREAS	To	TOTAL			
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Γ	FORM I. C.—427 Rev. 2-42 10M 8-80 PROJ. NQ. ()	CONST	FATE HIGHW		ORD	PAGE NO	<u>5</u>
	OVERRUND 4846 AT .	No. 3					
	LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER-	UNDER- RUNS	REMARKS	PAGE
	26+40-40+00	15,307	20,743	1846		TOTAL CONTENT	3-1
		De4PaR	i	. ORI	GINA	FOUND TO BE SOUNDING	
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	COMPUTED BY JD		CHEC	KED P	10-		



GRH I C -- 401 State Form 35927

PAGE NO 3-1

5M 3-79

INDIANA STATE HIGHWAY COMMISSION CONSTRUCTION RECORD

IT PHOL NO. 100 - 1 (1) O STR. NO. CONTRACT NO. I-0000

STATIONS	END AREAS SQ. FT.		SUM OF END AREAS SQ. FT.		CU, YDS.		TOTAL CU. YDS.		PAGE
	CUT	FILL	cur	PILL	CUT	FILL	CUT	FILL	
2.5									
30	0		700		648				
+50 31	700		2300		2130				
31 - 60	1600		3850		3565				
+50	1287		4537		4201				
+50	2223		4510		4176				
33	1521		3744		3467				
+50	350		1871		1732				
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TEST HOLES

Our General Instruction to Field Employees show sample field book notes for test holes. The pay lengths should be summarized on Form 1.C. 615 then transferred to Form 1.C. 627.



_	FORM I. C.—427 Rev. 2-52 10M B-80 PROJ. NO. 100 SECTIO ITEM CASED TE.	CONST			ORD	CONTRACT NO. I-	2000
	OVERRUNG AT 8			RAUNS	30	0.50 I	5.00
	LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER- RUNS	REMARKS	PAGE
	ENTRY CONTRACT	500	470		30	ROAD PORT	10N 4-1
		50BS	TATIALLY	AS	PLA	4H8D	
				Go	hr	Dre	
	COMPUTED BY 15		CHEC	KED R	A		



PAGE NO 4-1 INDIANA STATE HIGHWAY COMMISSION CONSTRUCTION RECORD I PROJ. NO. 100-1(1)0 BTR. NO.

ITEM CAS'ED TEST HOLES-4" CONTRACT NO I- 0000 SUMMARY OF HOLE DEPTHS PUR CRUSS SECTION ORIGINAL NOTES PG. 11; BOOK 1 STATION DAPTHS 31 90' +50 100' 100 32 +50 109' 77' 33 470' TOTAL to PE1.4

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FORM I. C.—627 Rev. 2-62 10M 8-80	CONST	TATE HIGHW		ORD)
I PROJ. NO. 100 SECTION	TOW BY	R. NO			CONTRACT NO I-COO)
	-KAW			7 -701	No. 5	77 00
OVERRUNS AT S				1	1 2:00 2212	13.00
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	PLACED	RUNS	RUNS	REMARKS	PAGE
26+40-40+00	17.791	0		17,701	TOTAL CONTRACT	
	ENTIRE.	ITEM D	CL 4. 7%	DAT	BID PRICE T	HUPE
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B BORROW FOR STRUCTURE BACKFILL

Payment for B Borrow for structure Backfill is to be made on the basis of plan quantities. Changes from the plan quantities must be approved. Request for approval of changes should be made on Form 1C 626. These requests should be made in cases where a major error in the original computations is found, where a structure is relocated so as to make a major change in the B Borrow required, or where a structure is added which requires B Borrow. Detailed computations are needed when approval of an adjusted quantity is requested. These may be placed in the record either with the item or with the 1C 626 Form.

Measurement of structure backfill material, by truck measurement or otherwise, is required only when the material is taken from a pit cross-sectioned for payment as another item. Then the total measured quantity used on structures is deducted from the pit, even if it is greater than the pay quantity for structures.

For each structure requiring granular backfill, the structure book should have a note that the structure was backfilled as planned or as otherwise approved. If the granular backfill came from common excavation or from a pit-crossectioned for another item, the structure book should show the source. The planned and placed quantities can be transferred directly to Form 1C 627. The remarks column of Form 1C 627 should show references to approved changes. Reference to or a copy of the detailed computations should be included in the record.



FORM 1. C.--617 Rev. 2-62 10M 8-80

INDIANA STATE HIGHWAY COMMISSION CONSTRUCTION RECORD

PAGE No.

		N				CONTRACT NO - COO	\supset	
ITEM B BOY	220	SW FOR	STRUCTU	E BA	ACICEI	No. 6		
OVERRUNS 7 AT 8 4.00 8 28.00 UNDERRUNS AT 8								
LOCATION AND DESCRIPTION		QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER-	REMARKS	PAGE	
STR. No.	11	7	0		7	10 626; SEE DOL	70	
	12	7	7				10	
	1	665	665					
	13	45	45					
	14	3	33	30		INCREASE APPROVED 10 626; SEE PHTC	6-	
	17	37	37					
e 0 -		7/4				S		
ROAD PORTION		764	787	30	7	SUBTOTALS		
STR. No.	16	17	1		No	DECERASE APPEOVED MIC (1726) See PG.70	6-2	
						C F.R. #1 - TOTAL	1	
GRAND TOTAL		781	788	30	23			
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FORM I. C 814 State Form 4	249	6-1
FORM 1. C 614	INDIANA STATE HIGHWAY COMMISSION	PAGE NO.
10M 9-80	INDIANA STATE HIGHWAY COMMISSION CONSTRUCTION RECORD	
I PROJ NO 100 BECT	100	TRACT NO T-CCCC
	DETAIL SKETCH	TEM NO. 63
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10M 9-80	INDIANA STATE HIGHWAY COMMISSION
	CONSTRUCTION RECORD
T. PROJ. NO. LOC BE	CYION LIX STR. NO CONTRACT NO TO COCCO
	from No. 63
La la company de	DETAIL SKETCH TEM NO. C.
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	0.0385 × 31.75 = 1 cyb TO Par. 6
	VOLUME ON PLANS (TCYD)
	UNDERRUN 16 Cyb
1	
	BUMMARY PAGE
COMPUTED BY JD	CNO KU



PAVEMENT REMOVAL

The original notes for removal items may be made either in a field book or on Form 1C 614. Computations should also be made on Forms 1C 614. Subtotals should be grouped as nearly as practical as the quantities shown on the plans are grouped. These subtotals are carried to Form 1C 627 for comparison to the planned quantities.

Computations may be made in a field book; sub-totals compiled in the field book and the totals carried to the 1C 627. All original notes must include the names of those highway employees compiling the original notes and taking the field measurements. It is suggested that plan and final quantities be computed on an 1C 615 rather than the 1C 627. Sketches in the field books should conform to those illustrated on page 7-1 and 7-2.



FORM I. C627 Rev. 2-62 10M 8-30		ATE HIGHW			PAGE NO.	7
		RUCTION	REC	ORD	Τ	
ITEM PAVEMENT		R. NO			CONTRACT NO 1 00	∞
	100/010				No	
OVERRUNS AT \$		1	RRUNS	ı	7 •	=
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	PLACED	RUNS	RUNS	REMARKS	PAGE
0+00 +0 9+90	2200	2200.0				7-1
26+40 to 40+00	3022	3022.4	0.4			7-2
45+10 to 52+80	1711	1710.9		0.1		7-3
		SAY 6933				
ENTIRE CONTRACT	6933	6933.3	0.4	0.1	ROAD PORTION	
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FORM I.	C614 Sta	te Form 4288			No.	/-1
10M 9-8	0		NA STATE H			
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	ta Form 4288	PAGE NO. 7-2
10M 9-80	INDIANA STATE HIGHWAY COMMISSION CONSTRUCTION RECORD SECTION 1(1)O STR. NO. CONTI	NACY NO. I-MO
	DETAIL SKETCH	ITEM NO. 798
PANE	MENT REMOVAL & BREAKING	GINAL NOTES
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	Кеном	
26+40	الله	SUMMARY DUANTITY PAGE
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FORM I. C 627 Rev. 2-62 10M 8-80 L PROJ NO. 100 SECTION ITEM PAVEMENT	CONST	TATE HIGHW TRUCTION		ORD	PAGE NO CONTRACT NO TO CONTRACT NO T	
	.00 . 2.0		RRUNS		No	
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER- RUNS	REMARKS	PAGE
40+00 +045+10	1133	SAY 1139 1134.7	2 1.7		ENTIRE CONTEACH ROAD POETION	7-2
	SUBS	TANTIAL	LY 1	15 F	CANNED	
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COMPUTED BY JD		CHEC	KED P	A-		



FORM I. C.—627 Rev. 2-62	INDIANA ST	ATE HIGHW	AY COI	MMISSIC	PAGE NO)_
10M 8-80 		RUCTION			CONTRACT NO I - 000	0
ITEM COMBINED	CURB	\$ 9017	ER 1	REMON	1.00 2.00	
OVERRUNS AT S			RRUNS	1	1.00 . 2.00	
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	RUNS	REMARKS	PAGE
ENTIRE CONTRACT	1940	1938		2	ROAD PORTION	7-1
	SUBSTA	NTIALLY	AS	PLAI	UNED	
		Jo	ha	da	2	
			CKED R			



SUBBASE

Payment for subbase is made on the basis of plan quantity. This planned quantity can be revised by authorized changes which add to or decrease the original quantity.

A check of the plan quantities should be made to insure that there is no major or gross error. If this check does reveal that such an error exists, and that the error changes the total quantity by more than 2 percent, it will be necessary to recompute the entire quantity.

Any change in quantity should be computed and checked; then approval should be obtained on Form 1C 626. The approved changes added to or subtracted from the proposal quantity will be the final pay quantity.

The explanation of underruns or overruns on Form 1C 627 should contain this statement, "A sufficient check of the adjusted plan quantity has been made to insure that it has no major or gross error."



10M 8-80	INDIANA ST	RUCTIO			PAGE NO CONTRACT NO I - CO	2 <u> </u>
ITEM SUBBA					No. 10	
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER- RUNS	REMARKS	PAG
ENTIRE CONTRACT	5000	5300	300		ROAD PORTION	10
TWO CHI EXPLAINET					77 ARE 1 16626, PA.T	
			70	hr	Dre	
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FORM 1. C ---618 REV. 4-81 PAGE NO. 10-1

INDIANA STATE HIGHWAY COMMISSION

T PROJ. NO. 100 - 1(1)0 STR. NO.	RECORD	ONTRACT NO. I - 0000
TEM_SUBBASE		No
SUBBASE SUMMAR	24	
PROPOSAL QUANTITY		d
INCICEAGE DUE TO THICKENED SUBBASE 39+75 TO 42+00 SUBTOTAL	432	
DECREASE DUE TO SUBBASE OMISSION 3+90 +0 5+05		
UMISSION 37-70 40 57-09	5300	PG. 10-2 to PG. 10
CHECKE		



INDIANA STATE HIGHWAY COMMISSION CONSTRUCTION RECORD ITEM NO. 10 DETAIL SKETCH SUBBASE 1/2 CROSS SECTION (FROM STD. CROSS SECT. SHEET # 1E) Y2 ACEA = 29.0 × 6 + 1 (4)(6) = 15.5 SF. TOTAL AREA = 31.0 SF SUBBASE OHITIED STA 3+90 TO 5+05 (FIELD BOOK #4) VOLUME - 115 × 31.0 - 132 40 TO P. 10-1



FORM 1, C.—614	State Form 4288	PAGE No 10-3
10M 9-80	INDIANA STATE HIGHWAY COMMISSION CONSTRUCTION RECORD (O) SECTION (IV) O STR. NO. CONTRACT	T NO I-4000
	DETAIL SKETCH	T NO. 1 - 1000
	SUBBASE SA	OTES:
	MICKENED SUBBASE	Scor # 4, P. 45
4 date 2 a d		
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THICKE	NOS SOBBASE PLACED. STA. 39+15 TO 42+00	
	275 × 5189 = 432, 4 cy0 70 P. 10-1	
	27	
	TIPA TIPA	MMARY QUANTITY PAGE.
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AGGREGATE AND BITUMINOUS MIXES

This instruction is for aggregate and bituminous mix items which are paid for by weight.

An adding machine tape showing the total net weight should be attached to the tickets for each days run. The tape or an attached note should also show date, kind of material, number of loads and location(s) used. The weight tickets with this information attached will constitute the original notes for the item.

From these notes monthly Forms 1C 640A are prepared. A progressive total can be carried from sheet to sheet on these forms. The final total for the item or any portion of the item is then carried to a Form 1C 627 for comparison to the proposal quantity.

A Form 1C 615 should be used if it is needed to regroup quantities.

It is to be noted that adding machine tapes should show that the machine was cleared before each individual addition was started.

Weigh tickets for all aggregates should show the moisture content.

The original copies of Forms 640A, not zerox or carbon copies, should be placed in the Construction Records.

Pure calcium chloride and pug mill reports are to be included in the final. Inspector at the pub mill plant to prepare 1C 599 weight tickets on Ca Cl used. Tonnage of Pure Ca Cl is to be deducted from compacted aggregate.



10M 8-80 I PROJ. NO. 100 SECTION TYPE 1101	CONST	TRUCTION	N REC	ORD	CONTRACT NO T-00	200
ITEM//C/	COMPAC		REGAT		ASE NO !	1
OVERRUNS AT 8		UND	ERRUNS	49	5.00 64	5.00
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	RUNS	NUNDER-	REMARKS	PAGE
0						
RURAL PORTION	1900	7751		149	SUBTOTAL	11-1
,						
ACCESS ROAD		,				-
MUESS ROAD	660	660				11-2
						-
CONTRACT TOTAL	8560	8411		149		
	7,700			152		
UNDERRULI				EHAC		
VACIATION	IN TOWN	AGIE CON	TROC			-
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State Form 2602



Form 1C-640A Rev. 8-76 16M 8-80

INDIANA STATE HIGHWAY COMMISSION DIVISION OF CONSTRUCTION

Page 11-1

16M 8-80 State Form 3404

		MON	m_A0	GUST_	, 199	27	
Day of the Month		ial Laid to Station	Lineal Feet Laid	Square Yards	Number of Truck Loads	Designated Size of Aggregate or Bituminous Mix	Aggregate or Bituminous Mix Lbs.
89	26+30 LT. 26+30 RT.	APPROACH		175 175	11	53 53	220,600
							217,000
12	5HOULDER 0+50 25+65	24+35 }	2440	4609	65	53	2,552,000
13	0+50	24.35 1	2440	4609	66	53	2,608,000
	MAIN UN	IE AND SH	LULDERS				
19	26+40 37+00	37+c0 45+00	10.60	6167 5156	95	53	3,706,400
22	45+00	52+00	100	5027	iί	53 53	3,084,600 3,111,400
	TO	TALS		7.			15,501,80



Form IC 640A Rev. 8-76

INDIANA STATE HIGHWAY COMMISSION DIVISION OF CONSTRUCTION

Page 11-2

15M 8-80

	Vhich TYPE 'I	MON	ти	UNE	, 19	Project No	ESS ROAD
Day of he Month		at Laid o Station	Lineal Feet Laid	Square Yards	Number of Truck Loads	Designated Size of Aggregate or Bituminous Mix	Aggregate or Bituminous Mix Lbs.
	26+40	33+00	660	1320	42	53	1,320,90
	TOT	ALS					1, 320,90



PAGE NO. 12 FORM I. C .- 627 Rev. 2-62 INDIANA STATE HIGHWAY COMMISSION 10M 8-80 CONSTRUCTION RECORD CONTRACT NO I-0000 T PROJ. NO. 100 SECTION 1(1) O STR. NO. BITUMINOUS SURFACE No. 12 10.3 ... 10.00 . 103.00 LOCATION AND QUANTITY ON PLANS QUANTITY PLACED OVER UNDER-REMARKS PAGE RUNS RUNS POAD PORTION 515.0 525.0 10.0 12-3 SUBTOTAL. ACCESS ROAN 60.3 12-1 60.0 0.3 TOTAL CONTRACT. 575.0 585.3 10.3 5 TONS OF THE OVERRUN TONNAME IS DUE TO AN INCREASE IN THE LENGTH OF THE INTERSECTION AT 26+30. THE REMAINDER IS DUE TO THE LACK OF PERFECT TONHAGE CONTROL. MAR CHECKED CD

COMPUTED BY
State Form 2602



Form IC-640A Rev. 8-76

INDIANA STATE HIGHWAY COMMISSION DIVISION OF CONSTRUCTION

Page 12-1

15M B-80

		MON	гн	JUNE	, 19_	69 Aca	ESS ROAD
Day of Month	Materia Station to		Lineal Feet Laid	Square Yards	Number of Truck Loads	Designated Size of Aggregate or Bituminous Mix	Aggregate or Bituminous Mix Lbs.
8	26+40	33+00	.660	1320	4	н.А.С	120,600
							120,660



Form IC 640A Rev. 8-76

State Form 3404

INDIANA STATE HIGHWAY COMMISSION DIVISION OF CONSTRUCTION

Page 12-2

15M 8-80

iterial Is	Which SURI	MON	Se	EPTEMBE	R 19	Project No.	100
Day of ne Month		al Laid o Station	Lineal Feet Laid	Square Yards	Number of Truck Loads	Designated Size of Aggregate or Bituminous Mix	Aggregate or Bituminous Mi Lbs.
27	25+65	52+80	2715	7240	27	H.A.C.	664,700
30	9+90	24+35	1445	3853	13	H.A.C.	355,100
	TO]	ALSED BY		11,093	Tons This M	lonth	1,019,800 509,90



Form 1C-640A Rev. 8-76 15M 8-80

INDIANA STATE HIGHWAY COMMISSION DIVISION OF CONSTRUCTION

Page 12-3

.....

tate Form 3404	•	AGO	GREGATE C	R BITUMIN	OUS MIX		
Road	Sec.	100				Contract No.	I-0000
Course In Material Is	Which SURI	FACE				Project No	100
		MON	тн Ос	TOBER	, 19	19 1	PROACHES
Day of the Month		ial Laid to Station	Lineal Feet Laid	Square Yards	Number of Truck Loads	Designated Size of Aggregate or Bituminous Mix	Aggregate or Bituminous Mix Lbs.
	26+30	LT4RT.		330	2	H.A.C.	30, 300
		TALS					30,300
	APPROV				Tons This M	ionth	15.15
ngineer or nspector =	Jah	n Dre		_			09.90
Contractor .	alb.	le			Tons Grand	Total5	25.05 TO PEI.12



FORM I. C.—627 Rev. 2-62					PAGE NO.	3_
10M 8-80	CONST	RUCTION				~~~
ITEM BIRDMIN	N	R. NO BASE			CONTRACT NO 1-00	
	00 545	000	RRUNS		No	
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER- RUNS	REMARKS	PAGE
ROAD PORTION	1980.0	2040.6	60.6			13-2
ACCESS READ	150,0	150.5	0.5			13-1
TOTAL COXITRACX	2130,0	2191.1	61.1			
					ATERIAL WAS	
REQUIRED	FOR WED			Dre	OF THE CONT.	ACT.
		Ja		W/-C		
COMPUTED BY V		СНЕ	KED R	B		

State Form 2602



Form IC-640A Rev. 8-76 15M 8-80

INDIANA STATE HIGHWAY COMMISSION DIVISION OF CONSTRUCTION

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State Form 3404

oadl ourse In W laterial Is U	Sec Sec Thich BITUMIN	NOUS BASE MON		JUNE	, 19.	Project No.	I-0000 100
Day of he Month	Materia Station to		Lineal Feet Laid	Square Yards	Number of Truck Loads	Designated Size of Aggregate or Bituminous Mix	Aggregate or Bituminous Mix Lbs.
7	26+40	33+00	660	1320	20	н.Д.С.	301,000
	тот	.\LS	A. Walles and A.			,	301,000
igineer or	APPROVE	DBY	0		Tons This M		50.50
ontractor _	C.B	· Oce		_	Tons Previor		50.50 fm.13



Form IC-640A Rev. 8-76 15M 8-80

INDIANA STATE HIGHWAY COMMISSION DIVISION OF CONSTRUCTION

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State Form 3404

Day of the Month		ial Laid to Station	Lineal Feet Laid	Square Yards	Number of Truck Loads	Designated Size of Aggregate or Bituminous Mix	Aggregate or Bituminous Mix Lbs.
		FIRST (WESE	MAIN	LINE		
3 4	26+40	40+00 52+80	1360	3627 3413	26 25	HAC HAC	192,000 778,200
		SECOND	Course	MAIN	LINE		
10 . 11	26+40 45+00	45+00 52+80	1820 780	2080	37 15	HAC HAC	1,698,800 450,900
		Resur	FACE Z	AFFRON	CHES		
160	9+90 25+65 26+30	24+35 1 26+40 U + ET	1520	4053 } 330	34	HAC	961,20
·							
	TO	TALS					4,081,10
	APEROV				Tons This N	200	0.55



T PROJ. NO. 100 SECTION	CONST	RUCTION	REC	ORD	CONTRACT NO I-OCC	0
ITEM BITUMINOU	S MIXTO			COEP 98	. 9.00 . 178.9	70
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER-	REMARKS	PAGE
ENTIRE CONTRACT	1911.0	1891.2		19.8	ROAD PORTION	14-
Strul	DERS PL PLANN	ACED SU	BSTA		LY AS	
			9			

State Form 2602



14-1

Form IC-640A Rev. 8-76 15M 8-80

State Form 3404

INDIANA STATE HIGHWAY COMMISSION DIVISION OF CONSTRUCTION

Road	Sec.	1(1)0				Contract No.	I-0000
Course I Material	n Which BIT.	Sibulisees				Project No.	
		MON	rh Sep	TEMBER	, 19	69	
Day of the Mont		rial Laid to Station	Lineal Feet Laid	Square Yards	Number of Truck Loads	Designated Size of Aggregate or Bituminous Mix	Aggregate of Bituminous Mix Lbs.
17	0+50	24+35 L					
182	0+50	24+35L 52+60L 24+35R	5100	5733	42	HAC BASE	1,261,400
is Done	0+50 25+65	52+808	5100	5733	42	HAC BASE	1,261,000
29	0+50	24+354	R				
29	25+65	52+80 L1	R 10,200	11,467	42	HAC "B"	1,260,000
M .							
Month Opon Which							
Monti							
Day of							
5							
Ξ							
	TO	DTALS					3.782,400
		VED BY			Tons This	Month 18	91.2
Engineer Inspector		an Dre			Tons Previo	ously Reported	_
Contracto	or	s. Vie			Tons Grand		91.2 PG. 14



BITUMINOUS MATERIAL APPLIED

Similar to other items paid for by weight, the weigh tickets are the original notes. Complete data from each ticket is posted on Form 1C 26, where they are totaled for the various portions of the contract. These totals are compared to proposal quantities on Form 1C 627.

The original copies of Form 1.C. 26, not zerox or carbon copies should be placed in the Construction Record.



FORM I. C .- 627 Rev. 2-62 INDIANA STATE HIGHWAY COMMISSION 10M 8-80 CONSTRUCTION RECORD 1610 CONTRACT NO. I-0000 PRIME (DAT MATERIAL FOR No 15 UNDERRUNG 2.40 AT \$ 50.00 , 120.00 OVERRUND. LOCATION AND QUANTITY ON PLANS QUANTITY UNDER-OVER-REMARKS PAGE DESCRIPTION RAD PORTICH SUBTOTAL 2.40 30,00 27.60 15-2 ACCESS ROAD 2.00 2.00 SUBTOTAL 15-1 TOTAL CENTRACT 32.00 2.40 29.60 APPROXIMATELY 2 TONS OF THE ABOVE MATERIAL WAS USTED FOR PRIME OVER EXISTING BITUMINIOUS SURFACE. THIS WAS CHANGED BY EXTRA WORK AGREEMENT BITUMINOUS MATERIAL FOR TACK COAT SEE PAGE (S). Mas CHECKED KA COMPUTED BY



pages	0(1)0						3421							1	5	(Tons)	(Suor)
I - 0000	1-100-1(1)0			P.O. No.	Lab. Test		69-342										
0	No.		2	2	Net Weight		4,000								4000)	2.00	1 7.00 10 FB. (5)
Page Contract N	Project No.	Str. No.	Road	Item No.	Tare Weight		24,000 10,000									Sub-Total	nd rotar
	(T) =				Gross Weight		24,cw										
	(BY WEIGH	1969			IC 599 Weight Ticket No.		2345									spunoc	in or a co
	QUANTITIES OF BITUMINOUS MATERIAL (BY WEIGHT)=			ORD	Vendors Ticket No.		1×									Weight material to the nearest 100 pounds	le-nungred
	TUMINOUS	for Month of JUNE		ALLESS ROAD	Date Matl. Appld.		33									the nes	learest of
	S OF B	th of	l	2			125									erial	22 22
	NTITIE	r Mon			Distr.		_									ht mate	מבה
	QUA	fo	25-70	2	Square Yards		1320									= Weig	+ C0100
		<u>Æ</u>	KIND		Lineal Feet		090										
35926	œ	PRIL	RIAL		App.		_										
.6 Sum Form 35926	4/68 replaces M26,M618 & IC618	COURSE PRIME	BIT. MATERIAL KIND MC-10		Station to Station or Road and Section		33+00 AR									A Va	2
IC 26	4/68 repl M26,	4M 9·80			Station Road an	26+40									Totals	Prepared by	כופכאפר



Contract No. I-0000	Project No. 1 - 100 - 1(1)Q	Str. No.	No. [5]	Tare Net Lab. Weight Weight No.	39.57	21 800 00 11 000 00 12 11 2		73.m 8.600 10-1112	8,700		(59,300 joq, too 55,200)
				Gross Weight	32,600		31,500	21.600 73.mm	2350 31,800		159,300 li
	QUANTITIES OF BITUMINOUS MATERIAL (BY WEIGHT) =	6961		IC 599 Weight Ticket No.	2346	126	2348	6720	2350		
	MATERIAL			Vendors Ticket No.	X 125	× 155	× 156	× 158	x 199		M Marian
	TUMINOUS	AUGUST		Date Matl. Appld.	23	2%	26	88	28		
	S OF B	th of_		Temp.	125	125	125	125	125		1
	NTITIE	for Month of		Distr. Temp.	-	-	-	-	-		in E
,	QUA	fo	16-70	Square Yards	5422	2882		2933			
		עו	KIND	Lineal Feet	4880	2140	2640	2640	2640		
36926	80	PRIH	ERIAL	App.	Sho.						
IC 26 State Form 36926	replaces M26,M618 & IC618	4M 9.80 COURSE PRINCE	BIT. MATERIAL KIND NC-70	Station to Station or Road and Section	0+50-24-35-48	76+30 L9K	26+40-52+80R4	2440-52+801 SA	26+40-52+80 6 - NO.		Totals Prepared by 15



FORM I. C.—627 Rev. 2-62 10M R-80		ATE HIGHW				16 No. 16)
PROJ. NO. 100 SECTIO	11100 at	R. NO			CONTRACT NO.		0
OVERRUND AT .	BASE	MIDENING		20.0	, 11.00	10 16	~
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER-	REMARI		PAGE
ENTRE CONTRACT	733.0	713.0		20.0	ROAD PUR	TION	16-1
ALL SUBGE	ADE WA	- E III N	r.001	M. 1721	Fillis IIE	\ S.P	CAC
LEVEL WITH ET							
PERCENT UNDE	CUH IS D	E TO CUA	1 PACT	ED W	ATERIAL	HAVIA	14
A DENSITY LE	5 THAN	THAT USE	D Fo	R E	MITAHIT	9.	-
			le lu	8	· De		
					V C		
	·		/				
							_
COMPUTED BY JD		CHEC	KED R	D			



Form 1C-640A Rev. 8-76 18M 8-80

INDIANA STATE HIGHWAY COMMISSION DIVISION OF CONSTRUCTION

Page 16-1

State Form 3404

REPORT OF MATERIALS USED AGGREGATE OR BITUMINOUS MIX

Road Course In Material Is	Which BIT.	BASE WIDE	PAINS	A	_	Project No.	100 100
Day of	Mater	MONT	HLincal Feet	AUGUS	Number	Designated Size of	Aggregate or
the Month		to Station	Laid	Yards	of Truck Loads	Aggregate or Bituminous Mix	Bituminous Mix
1	FIRST	COURSE 24+45					
	25+65	26+40.	530	14:35	20	HAB #4	505, 300
	SAME SEC	CND COURSE	1530	135	19	HAB H4	475,200
	SAME THE	D COURSE	1530	1267	18	HAB#4	145,500
	то	TALS			57		1,426,500
Engineer or	APPROV		À 4		Tons This !	donth 7	713.00
nspector	-	ohn d	Joe_			usly Reported	7
Contractor	-) EL	m tou			Tons Grand	Total	713.00



CONCRETE PAVEMENT

The original notes for rigid pavement items should be final chaining notes which show station equations, gaps, etc. These are transferred to Form 1C 611A for computations.

Intersections, crossovers, etc. should be sketched, usually on Form 1C 614, with computations. The original sketches may be made either in a field book or directly on the form 1C 614. Totals of separate portions of the contract are carried to Form 1C 627 for comparison to itemized proposal.



FORM 1. C.—427 Rev. 2-42	INDIANA ST	ATE HIGHW	AV CO	MICCIO	PAGE NO.	7_
10M 8-80		RUCTION			N	
I PROJ. NO. 100 BECTIO	N (1) O ST	R. NO			CONTRACT NO. I- DOOD	
ITEM REINFURCES	COHER	ETE PAVI	EMEN)" NO 17	
OVERRUNEAT 8		UNDE	RRUNS	254.	7.00 . 1778	3.00
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER- RUNS	REMARKS	PAGE
						-
ENTIRE CONTRACT	3250	2.996		254	ROAD PORTION	17-
						-
						<u> </u>
THE PROPOS PAVEMENT AT 1					FOR THUKE	1
OF 37 SQUAR				1	SYD UNDERR	1
CAUSED BY ONE	LOADO	- CEMEN	TWI	ICH F	AILED AFTER	F
					ATE USAGE A	
THE AFFECTED		GE 65.	410	OK A	TAN ALLOS	10
		July	3	Sre_		-
				014_		
						-
						-
COMPUTED BY		CHE	CKED P	8		<u> </u>



FORM 1-C-611-A 5M-4-60 PAGE NO. 17-1

STATE HIGHWAY DEPARTMENT OF INDIANA

DIVISION OF CONSTRUCTION

CONTRACT NO. 100 SECTION 1(1)0 COUNTY

PAVEMENT

NORMAL WIDTH	24' PAVIENENT	CHAINI	Nea · DG	1.50, BOOK	NORMAL DE	PTH
Stations	Length	Width	Depth	Actual Sq. Yds. Surface	Equivalent Sq. Yds. of Normal Pav.	Remarks
0+00.0	499.6	24'	10"			
5+00.0	250.4	n	11			Chain Eq
7+50.4						Chain Eq.
9+90.0	2,40,0	n	11			
	990.0	44	11	2140.0	2640.0	TOTALS 24' PAVEMENT
0+00	INTERSE	CTION		407.1	467.1	PG. 17-2
24+35	BRINGE	Appear	C.[4	100.2	118.7	PG. 17-3 BRIDGE
25+45 25+65	BRINGE A	PPROACE	ų	100.2	118:7	PG1. 17-3
	3	ETION		3,247.5	3264.5	TOTALS
	DEDUCT FOR	LANGO	CENENT NET		2996.5	16.17
				SAY	2996	

NOTE: SKETCHES MUST BE INCLUDED IN CONSTRUCTION RECORD FOR ALL VARIATIONS FROM NOR-MAL WIDTH OR DEPTH.



FORM I. C 614 State Form 4288 10M 9-80 INDIANA STATE HIGHWAY COMMISSION	PAGE NO.
CONSTRUCTION RECORD	STRACT NO I-DCCO
DETAIL SKETCH	ITEM NO.
R.C. PAVEMENT	DRIGHAL NOTES !
A) 22.0 + 32.0 = 704.04	B. DOE
(B) 12.0 x 50.0 = 600,000	}
D 280 x 32.0 = 852.0" 65 6.1	COUTRACTION JOINT:
© /26/18.0×18.01 - 14 20 500' 25.4 × 5.3 × LEDZ = 57.2 - 14 20 + 20 + 20 + 20 + 20 + 20 + 20 + 20	0+40R 16.2 0+80R 9.0
(F) ,2196 x 182 = (B),500	1+ 20 R 5:0::
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	TOTAL 47.4
TOTAL 3663.75'	REINFORCING STEEL!
= <u>407./ sqb</u>	2×9.5 = 19.0° 1 4×21.5 = 82.0
C = 25,4 12.0' 12.0'	TOTAL 101.0'
3615 VIII 16.2' 0+ 40 16.2'	105#
(i) (i) (ii)	34.5
0 0 00	
	0.2
22.0' 12.0' 12.0' 28.0	70
22.00 12.00 18.00 28.00 11.00 28.00 11.00 28.00 11.00	
INTEGRAL CURB PAVEMENT IN PLACE	
LEFT 30/S RIGHT 34:S	SUMMARY SUANTITY PAGE
TOTAL 65.0 K.C. PAIEM STEL FOR	PAVEMENT 105" 18
COMPUTED BY D CKD RA- WIEGRAY O	



PORM I. C.—614 Stata Form 4288	Procedo 17-3
10M 9-80 INDIANA STATE HIGHWAY Co	
CONSTRUCTION REC	
SECTION 11 10 STR. NO.	CONTRACT NO TOCOO
DETAIL SKETCH	ITEM NO. 17
2.0.1.0	
10" R.C. PAVEHENT	CREAINAL NOTES
PANEHENT ON SOUTH SIDE SHOWN	10/13/69 by JD
NORTH SIDE HAS SAME PAVEMENTS	STECH B.D.
Bridge	1
	Tir
	1.7'
10,16,0,1	I I I I I I I I I I I I I I I I I I I
	
	5A 24+39
44.0	100
22 #5 bars @ 22'-9"	
	232
88-591 pars @ 6"66; L= 20'-	v." I HE HE HE HE HE
PAVEMENT	
	1-
14.0 x 20.5 x 49 = 100.2 544.	
EXTEA VOLUME = 44.0 (2.71.0) x1.7=138.9	4 CF.: : : : : : : : : : : : : : : : : : :
Equ VOLUME/340 = 3 x 3 x 19/2 = 7.5 cf/	34D
138.9 - 7.5 = 18.5 ADDED EGUY. SYD.	
100.2 + 18.5 - 118.7 PAY QUANTITY	
STEEL	
# 591 bars - 20.5 x 88 = 1804	
22.75 x 22 = 500.5	
70TM 2309,5	
2304.5 × 1.043 = 2404 th	
2304.5 1.043 = 2404 -	
	SUMMARY JUANTITY PAGE
	R.C. PAVEHENT (Occom) 118.7 17
	STEEL (NORTH) 118.7 17
COMPUTED BY JD - CKD RD	STEEL (MORTH) 2404 18
CRD P	Gibbs (ctt.)



PAGE NO. 1 - C
INDIANA STATE HIGHWAY COMMISSION CONSTRUCTION RECORD
I PROJ. NO. 100 - 1(1)0 BYR NO. CONTRACT NO. I - COO ITEM REINFLECED CONCRETE PAVEMENT - 10" NO. 17
COMPUTATION OF QUANTITY TO DEDUCT FOR FAILED IMMEDIATE USAGE
CEMENIT-LABOROTORY No. 69-1234
Square yard of Payment . 10/36 CUBIC YARA
10/36x1.5= 5/12 bb/ OF CEMENT REGUIRED PER Sq. yh.
120bbl FAILES.
120: 5/12 = 288 Sq yo AFFECTED TO PG. 17-1 & P4 65.
COMPUTED BY 1



Explanation Sheet 18a

REINFORCING STEEL FOR PAVEMENT

Items such as this can be shown and computed on detail sheets with the pavement. From there go to 1C 627 Forms for comparison with the planned quantities.



FORM I. C.—827 Rev. 2-62	INDIANA ST	ATE HIGHW	AV CO	MISSIO	PAGE NO E	
10M 8-80		RUCTION		ORD		
I PROJ. NO. 100 SECTION	1(1)0	R. NO			CONTRACT NO. I - COC	<u>0</u>
ITEM REINFORCIN	G STEE	L. FOR	PAUEL	ENT	No. 18	
OVERBUNG 46 AT & C	1.15 . 6.5	UNDE	RRUNS		T 8 8	
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER- RUNS	REMARKS	PAGE
1+50 Rr.	105	105				17-
24+35 BR.	2381	2404	23			17-
25+65 BR.	2381	2404	23			17-
TOTAL CONTRACT	4867	4913	46		ROAD PORTION	+
						+
OVERBUM D	10 TO 1	(44) 0.10	17774	AIAr	NG NO	+-
ALLOWANCE					ANSVERSE	
BARS AT		JTER LING				
		(Jah	2 2	de	-
			<u> </u>			-
-						+-
						+-
						-
						-
COMPUTED BY			CKED (C	9		



Explanation Sheet 19a

CONTRACTION JOINTS

The original notes for joints used in intersections should be with the pavement measurements. Original notes for main line joints can be either in a field book or on Form 1C 615 as shown on page 19-1.



FORM 1. C.—627 Rev. 2-62 10M 8-80	INDIANA ST				PAGE NO.	<u>)</u>
		RUCTION	REC		7.	_
		R. NO			CONTRACT NO I-CCO	\supset
ITEM CONTEA		XINTS			No. 9	
OVERRUNE AT 8	.50 . Id.	,50 UNDE	RRUNE		T	
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER- RUNS	REMARKS	PAGE
						-
TOTAL CONTEXT	600	671	71		ROAD PORTION	19-
OVEREUM T	NE TO A	10 OUAL	TTTY	RF.I	NG ALLOWE	-
FOR INTER			TAP			
			0	The	Doe	
			(/			
						-
COMPUTED BY . IA			ven 69	0		



FORM C618 REV. 4-01				PAGE NO 9-1
		ATE HIGHWAY C		
T PROJ. NO. 100				CONTRACT NO. I - 0000
ITEM CONTEAC				No 19
N	MM LINE	JOWIS "	24' LONG	
	T- T		NO.	
STATION TO	STATION	SPACINITY	LOINTS	
0+40	1+60	40	4	SORIGINAL HOTES
0+75	4			MAIN LINE CLINTS
2+00	4+00	40	6	J.Doz /
4+30	4+60	30	2	R.Due
4+80	9+20	40	12	11/169
9+55		-		
TOTAL	DINTS		26	
		-		
4				
		624 feet		
ANDED F	OR INTERSECT		PG. 17-	
	TOTAL	671 re	Er	
		T	D PG. 19	
COMPUTED BY		CHECKED	RO	



Explanation Sheet 20a

PIPE STRUCTURES

Tabulate quantities for Pipe Structures and Concrete Culverts on Form 1C 612B by taking the quantities directly from the Structure Books. Subtotal the contract divisions and transfer to Form 1C 627.

The explanation for the overruns and underruns should be made for each structure in the remark column at Form 1C 612B.

All structure pay quantities are to be shown on 1C 612B; included is 3X common, catch basins, inlets, man holes, end sections, class "A" concrete steel, etc. Reference totals direct to the 1C 627 for each item. Structure book notes are to include trench widths of all pipe structures.



FORM J. C.—627 Rev. 2-62 10M 8-80	1000	RUCTIO			T-00	70
ITEM PIPE!	GROUP	11 / 11	18"		CONTRACT NO 20	
OVERRUNE 6 AT . 10	0.00.60	OND UND	ERRUNE	^	7 6	
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER- RUNS	REMARKS	PAGE
ROAD PORTION	18.2	178		4	-	23-
A, R, #1	30	40	10			23
TOTAL CONTRACT	212	218	10	4		
THE AMOUNTED SEE PG, 2	PLANS 3-1.	EACH IS EXPL			LENGTH VAI FORM ICL	
COMPUTED BY JA			CKED R			



FORM I. C.—421 Rev. 2-42 10M 8-80		RUCTION				L
I PROJ. NO. 100 SECTIO		R. NO	0, 7		CONTRACT NO I-000	Q
ITEM PIPE!	GROUP .	B7	36"		No. 21	
OVERRUNEAT \$		Und	ERRUNG	^	T 8	
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER- RUNS	REMARKS	PAGE
ENTIFE CONTRACT	182	182			ROAD PORTION	23.
PLANNED U	NGTH US	NO 43	ALL	361	CULVERTS.	
		8	Ma	Dr		
COMPUTED BY JD		CHE	CKED R	D-		



FORM I. C .-- 627 Rev. 2-62 INDIANA STATE HIGHWAY COMMISSION 10M 8-80 CONSTRUCTION RECORD 1(1)0 CONTRACT No I -0000 OVERRUNG. UNDERRUNA LOCATION AND DESCRIPTION QUANTITY ON PLANS QUANTITY PLACED UNDER-OVER-REMARKS PAGE ROAD PORTION ENTIRE CONTENT 100 100 23-1 PLACED PLANNED LENGITH CULVERT. ON ale CHECKED RO

State Form 2602

COMPUTED BY JD



FORM 1. C.—927 Rev. 2-82 10M 8-80 ——————————————————————————————————	INDIANA STATE HIGHWAY COMMISSION CONSTRUCTION RECORD ON 1(1) O BTR. NO. CONTRACT NO. I CONTRAC					
ITEM					No 2	
OVERRUNE AT 8		- UNDI	RRUNS	^	T 88	
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER- RUNS	REMARKS	PAG
ENTIRE CONTRACT	24	24			A.R. ±1	25
ONE	STEUCT	DRE; PLA	บปรอ	LENG	aTH	
		7	hu	24		



	CONCRETE AND			LENGTH OF PIPE PLACED	PLACED	141	DICATE RING AND	CINDICATE KIND AND BIZE IN ACCORDANCE WITH CONTRACT BID ITEMS				
STRUCTURE NO.		KIND . 62.	"D" END	SECTIONS				-				REMARKS
ũ	CLASS -B. STEEL	16. 36. 42.	12. 12.	8/	•	t t	•	1			•	
tury //		.79		7						-	T.	3
		83		2					-	+		Feb. 400 55 20
St. CO Oremin		~									÷-	
Chaerina		0/0		2					-	-	1	KG EGAINES 73
# /2 Man		9 6		26							,	FIF PORT
10 F.O. Todame		4									-	FR. 1 P 12, CK
4 /2 Plans 2.50	2.50	00/									F	ERIM F. 13, FR. 3
	2.50	001						1			-	
26+40LT Overson									-		+	
Underson			-					1				- 11 But 2
+ 4 Pinn 8.12	8.12	26	-		-	-			-	-	-	たんだ たんとんり
Ļ	8.12	76									-	
Jette Overrun										-		
Luderium										-		2 24 0 0 0
Plans	21.8	06			-						4	FEH PILLOKIA
# // Placed	21.8	જ								+		
Overnun												
T. Contract						1		-			-	
	10.14	152		4,								
	10.14	175, 152, 100		4				+			-	
Ocaron Overnon		7,						1				
KANGLA Lodering		9			-				-	-		Jan 2 12 62 3
# 15 Present			24 2			-						THE19 11 12 11 12
2 3 + C / 1 O errun						-						
Codera in									-		-	
# // Plans		30					-			FROM	16 6K3	FROM BILL 6K31 P.12 1255 CON C. 1265
		40		,		-					33	END. I'VE LENGTH MIKE.
22700 Overun		10/							-		4)	is.
		-					-				1	FIT WICH.
TOTTHE Plans		3.0	2 15						-	-	-	
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INDIANA STATE HIGHWAY COMMISSION
CONSTRUCTION RECORD

BTR. NO.

MUNICAL SECTO FORM 1818 INDIVIDUAL SECTION OF THE S

ITEM



SUBSURFACE DRAINS

The staking notes for subsurface drains should be supplemented to make them original notes for both the length of pipes laid and the volume of aggregate placed. If the trench width is less than 14 inches, a sketch showing the cross section or cross sections with stations used should be a part of the original notes.

The lengths of pipe to be paid for should be sketched and computed on Form 1C 614.

Aggregate can be computed on Form 1C 615 as shown.

Original staking notes are to include sketches for the particular sub-surface drain run. Summary of each day item used in a run, are to be shown in the field book. Summarize all day, items on an 1C 615. Field book sketches are to be prepared using (as a guide) those illustrated on pages 24-2 through 24-4. It is intended to eliminate as much as possible the copying of original notes.



FORM 1. C.—627 Rev. 2-62 10M 8-80		ATE HIGHW			PAGE NO	1
T PROJ. NO. 100 SECTIO	11.70	R. NO	· REC		CONTRACT NO I-000C)
OVERRUNB AT 8		UNDE	RRUNS	305	No. 244.	∞
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER- RUNS	REMARKS	PAGE
ENTIRE CONTRACT	5,260	4.955		305	ROAD PORTICAL	24.
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PAGE NO 24-

INDIANA	STATE	HIGHWAY	COMMISSION
CON	STRU	CTION F	RECORD

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	PE; GROUP "K	BTR. NO		CONTRACT NO.	
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26+40	40+00	1747		30	24-3
40+00	52+80	2181	460	60	24-4
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FORM I. C .- 614 INDIANA STATE HIGHWAY COMMISSION CONSTRUCTION RECORD DETAIL SKETCH PINE, GROUP "K" SUBSURFACE DELINS ORIGINAL NOTES Pt. 13-14, Book 4 GROUP "K" PIPE 26+40- 30+00 LT. 30+00-40+00 LT. 346.0 26+40 - 29+86 Rt. 31.5 29+86 - 30+00 € I ELBOW 27+86 RT. 2 TEES 30+00 LT. 1010 1746.9 TOTAL . ro PG.24-30' 29+86 COMPUTED BY JD



INDIANA STATE HIGHWAY COMMISSION CONSTRUCTION RECORD DETAIL SKETCH DETAIL SKETCH CONTRACT, NUT. 1 (2000) DETAIL SKETCH C	FORM 1, C,614 State F	orm 4288	24
CONSTRUCTION RECORD DETAIL SKETCH DETAIL SKETCH THEN NO. 24	10M 9-80	INDIANA STATE HIGHWAY COMMISSION	N PAGE NO CT-4
SUBSULFACE DRAMS ORIGINAL NOTES PR 14-15, BOOK 9 4	по мо СС	CONSTRUCTION REGORD	CONTRACT NOT COO
SUBSULFACE DRAMS ORIGINAL NOTES PR 14-15, BOOK 9 4	-, 1	6" PIPE GROUP VKI	
GROWF"K" PIPE 40 400 - 50 + 00 LT. IREQUE 40 000 5 LT 00 KT. IREQUE 40 000 5 LT 00 KT. IREQUE 40 000 5 LT 00 KT. IREQUE 40 000 5 TECH 00 IREQUE 70 100 IT 00		SUBSULPACE DEAMS	OFIGINAL NOTES PA. 14-15, BOOK 9
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30' Non Perf 48:50 2 Tees 40:50 15:0 280' TOTAL 21:31. GROUP "K" PAE (1-5) LEEP) 0 50:40 - 52:50 tr. 18:0 8 51:50 52:50 tr. 18:0 70 PR 24-1 AA+10 - Non PERF PIPE 40:00 R 3:00 48:10 L 30:0 70:PL 24-1 40:00 28:0' 30' Non PERF, PIFE SUMMARY	50rco +		40,00 £ 100,00 40,00 £ 28,0
GROOP "K" PHE (4-5' beef) 0 50+00 -52*8017 2800 51,700 -52*8017 180.0 70 PL 440.0 10 P. 29- 40+00 R 30.0 48+00 L 30.0 70 PL 24-1 40+00 20.0' 30' Non PERF, PIFE SUMMARY	30' NON Perf	48+50	2 Tees 48+50 10,0 3 Tees 48+50 15,0
### SUMMARY #### SUMMARY ##### SUMMARY ###################################			GROUP "K' A) HE (1-5' been)
40+00 NON PERF PIPE 40+00 R 30.0 48+00 L 30.0 70-74-C 60.0 70 P 24-I 40+00 28.0' 30' Non PERF, PIFE SUMMARY 1845 30 MINARY 30 MINA	0,000	0,001/	5/ rou - 52180 Rt. 180.0
48+00 L 30.0 707HC 60.0 70 P. 24-1 40+00 28.0' 30' Non PERF, PIFE SUMMARY 1780 J JUANTITY FASS	41+10		ION PERF PIPE
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28.0' 30' Non PORE, PIFE SUMMARY TEN GUANTITY FASS			/OF 7 2 T 1
TEST QUANTITY FACE			n AGRE, PIFE
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FORM 1. C.—621 Rev. 2-51 10M 8-80	CONST	TATE HIGHW				25
T PROJ. NO. 100 SECTION	1 (1) O a	FR. NO.	C.S.	PLOE	CONTRACT NO I-CO	X
ITEM 6" F.B.C.	NON- PE					
OVERRUNS AT \$		UNDE	RRUNG (20_,	1.50 . 180	
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER-	NUNDER-	REMARKS	PAGE
ENTIRE CONTRACT	240	120		120	ROAD PORTION	24.
3 OUTLETS TRANSVERSE AREAS WITH	WERE PIPES VERY	ELIMINI UNDER FLAT GR	THE	L	USING MENT IN	
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FORM I. C.—427 Rev. 2-67 10M 8-80 PROJ. NO. 100 BECTION	CONST	TATE HIGHWA		ORD	Τ	_0
ITEM COLVERT		ECTIONS			CONTRACT NO 1-00	
	CNS CE			_	No. Z	6
		UNDE		^		
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	RUNS	REMARKS	PAGE
ENTIRE CONTRACT	2	-2			ARHI	23-
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PROJ. NO. 100 BECTION	1(1)0 .				TRACT NO I-OC	
ITEM CULVERT G	UD Secon	CNS	<u> 18"</u>		No. 2	7
OVERRUNS AT 8		UNDER	RUNS	AT #		
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER-	REMARKS	P
COAD PORTION	4	4				2
A.R. #1						2
TOTAL CONTRACT	5	5				
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FORM I. C.—427 Rev. 2-65 10M 8-80	INDIANA ST				PAGE NO Z	8
T 100	1 (1)0 or	RUCTION	N REC	ORD	T-ma	^~
1	ATE FOR	_	3-4-5	70	CONTRACT NO 1-000	
	5.00,89			DE	AINS NO 28	
OVERRUNE TO AT \$	J, W , O)	UND	ERRUNG	^	7 8 8	
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER-	REMARKS	PAGE
ENTIRE CONTRACT	400	578	178		ROAD PURTION	28-
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FORM 1. C.---619

State Form 1864

AGE NO 28-1

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INDIANA STATE HIGHWAY COMMISSION CONSTRUCTION RECORD

I PROJ. NO.	00-11	10	STR. P	чо		CONTRACT NO.	[-ccco
ITEM AGGE	EGATO	FOR	: <u> </u>	STEFACE .	DRAINS	No.	18
STITIONS	D	AVE DEMTH FT	LENGITH FT	VULUE ILF TREACH	IE BLIWEEN STA	STAKINGS	
STATIONS 0+00-2+00	1.5	1.5	200	0.0530	10.6	11.112)	rocer 1
2t00-3t00	15,17	1.6	100	0.0573	5,7		
1 Ctcc -1 5100	الاردا	1.60	# #	p-	3, I		
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	/	-)-		-			
6+00-10+00	1.5	1.5	400	0.0530	21.2		
LATURAL. 7450							
DOWN-UP	1.5	1.5	27	0.0530	1.4		
			PAE	SE TOTAL	61.4		
					317.0	FROM P.	28.72
	C	DATRA	er Toi	AC	578.4	10 P.	28
			_				

COMBILITED BY	(1)			CHECKE	o PA		



PAGE NO 28-2

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INDIANA STATE HIGHWAY COMMISSION CONSTRUCTION RECORD

	I PROJ. NO. 10U-1(1)C STR. NO. CONTRACT NO. I-CCCO										
	ITEM AGGREGATE FOR SUBSURFACE DRAINS NO. 28										
	STATIONS	AVERAGE DEPTH FT.	TRENCH LENGTH FI.	VOLUME PET LF TRENCH	- CYS. BETWEEN						
ıμ	26+40 -30+00	2.75	360	0.1070	38.5		· · · · · · · · · · · · · · · · · · ·				
5/bE					ļ						
LEFT	50+00 - 52+80	4.25	280	0.1718	48.1						
	26+40-28+00	2.25	160	0.0853	13.6						
3010	28+00 - 29+86	3.30	186	0.1308	24.3						
1	29+86 - 4000	~	GAP	-	~						
CLEHT											
V	51+00-52+80	4.15	180	0.1674	5.2						
1											
S	29+86E 30+00L	3.8	28	0.1524	4.3						
FRA	40+00 L-40+00R	4.0	28	0.1610	4.5						
Are	48+50 L-48+50g	3.0	14	0.1178	1.6						
7	48+504 -48+5UE	2.9	14	0.1221	1.7	- 0 -0					
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	COMPUTED BY JD CHECKED CB										



FORM I. C627 Rev. 2-63 10M 8-80		TATE HIGHW			PAGE NO.	9	
T PROJ. NO. 100 SECTIO					CONTRACT NO I- CO	∞	
ITEM CONCRESE.	CLASS "1	" FOR	SIR	JOTURE			
OVERRUNSAT 8	05 10000 050 00						
LOCATION AND DESCRIPTION	OCATION AND QUANTITY ON PLANS		OVER- RUNS	UNDER- RUNS	REMARKS	PAGE	
ENTIRE CONTRACT	21.2	18.7		2,5	POAD PORTICAL	23-1	
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FORM 1. C.—627 Rev. 2-62 10M 8-80		rate Highw TRUCTION		ORD	PAGE NO. N CONTRACT NO. I - C	30
ITEM NIETS	TYPE P-					30_
OVERRUNG AT \$			ERRUNS	-	No	
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS		REMARKS	PAGE
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STR # 33	1	-			AR#1	BCOK. 2
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	· AS	PLANNS	.0			
		Ja	hi '	Dre.		
COMPUTED BY JA		CHE	CKED R	B.	***************************************	



Explanation Sheet 31A

RIPRAP

Original notes may be kept either in a field book or on Form 1C 614. Area computations should be made on Form 1C 614 or 615.

Specific methods of computing the quantity when the lower edge is constructed below grade is set out on Miscellaneous Standard Sheet MB2. This sheet also tells how toewall is to be converted to an equivalent surface area for payment.

Riprap may be paid for by the ton or the square yard.



	INDIANA ST	ATE HIGHW	AY CON	MISSIC	PAGE NO.	
I PROJ. NO. LOO BECTION ITEM RPRAP	. 1(1)0 00	RUCTION			CONTRACT NO I - OUC	
OVERRUNS 5 AT . 10	0.00, 1510).00 UND	RRUNS	^	T 0	
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER- RUNS	REMARKS	PAGE
ENTIRE CONTRACT	230	381	151		Srr 100 - 1-1111	31-
OFERRUN IS TOEWALL BE		ENTLY I	1	D ALL	OWANCE FOIL	<u></u>
			ga	len	Doe	
COMPUTED BY JD		CHE	CKED R	D		+



Р	ORM I. C614	State Form 4288				PAGE NO.	31-1
1	10M 9-80	INDIA	NA STATE H	IIGHWAY CO	MMISSION		
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	PROJ. NO	SECTION	STR. NO.		Con	THACT NO L	2000
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	(41-22.2	TOEWALL	15:	12:11:11	(6) 44.	0 x 12.0 ···	=528,00
	BOTTOM	24.2+44.0+	5.6+88.0=	91.8			
		191.8 40.64	- 122.8 540		0 12	2	= 272,40
	6,05				(D) 2.	0 x 72 7 x . 67	10 : 23.80
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Explanation Sheet 32a

PAVED SIDE DITCH

A good place for the original notes for an item of this nature is in the field book, along with the staking notes. Then the lengths at each run shown on the plans can be compared with the placed length on Form 627.

Field measurement may be placed in a field book or on an 1C 615 form. Field measurement must include a lineal foot measurement, number of lugs, number of toe walls and total pay length. Compare plan and length placed on the 1C 627.



FORM I. C,621 Rev. 2-63 10M G-80		TATE HIGHW				E No.	2
T PROJ. NO. 100 SECTION ITEM PAYED SIN		M	"A"			. 38	
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER	REMARK	5	FREM PAGE BXOK S
24+20 - 24+701	60	60.0					10
24+00 - 24+70R	60	80.0	20.0				11
25+30-26+001	80	115.0	350				12
25+30 - 25+806	2 60	60.0					13
TOTAL R-PURTION	260	315.0	55.0				_
F.R1							
31+00 - 31+40 L	60	50,0		10.0			A
31+50 - 32+002	60	60.0					14
TOTAL A.R. 41.	120	110.0		10.0			-
TOTAL CONTRACT	380	425.0	55.0	10.0			
(NEKRUN CONTROL	DITCH LE		AT Jal	LOWE	R ENDS	То	
			<i>V</i>				
COMPUTED BY JD		CHEC	KED K	D			



FORM 1. C.—627 Rev. 2-43 10M 8-80 1 PROJ. NO SECTIO	CONST	RUCTION	N REC	ORD	CONTRACT NO I-OCC	3
OVERRUND GO AT 8	3.00 18		S.		No. 3	<u>3_</u>
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER- RUNS	REMARKS	PAGE
ENTIRE CONTRA	- 59	65.0	6.0		RUAD PORTION	17-
						+
						#
						1
SUBSTAN	TIALLY	AS PLA	NNE			
			gou	in D	Soe	1
						-
COMPUTED BY		СНЕ	CKED R	2		



FORM I. C627 Rev. 2-62 10M 8-80		ATE HIGHWA			PAGE NO.	7_
I PROJ. NO. 100 SECTION	1(1)0 01		11120		CONTRACT NO I-COO	3
ITEM GUMED RA	IL, TYPE	BA			No. 34	-
	7.00, 21		RAUNE	A	T 0	
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER- RUNS	REMARKS	PAGE
Management of the control of the con						
ENTIRE CONTRACT	330	333	3		ROAD PORTION	34-
						_
	AS PLAN	NED				
		Jah	u	Dre		
		U				
COMPUTED BY JD		CHE	CKED F	P		



FORM I. C	State Form 4288		Page Not 4-1
10M 9-80	INDIANA	STATE HIGHWAY CO	MMISSION
	CC	NSTRUCTION REC	ORD · · · · · · · · · · · · · · · · · · ·
T PROJ NO	00 SECTION 1(1) C		CONTRACT NO I CCCO
1		4	
	, , , , , , , , , , , , , , , , , , , ,		ITEM NO. 34
		DETAIL SKETCH	IIIM NO. 12.1
		The state of the s	ORIGINAL NOTES
			3 M J. DOE
		II I I I I I I I I I I I I I I I I I I	In R. DOE
		× 27+25	Nov. 16, 1969
		40	
	0	18	
26.85	P L	2	hijari saadiatuseseeliliisusi ill
	I I	26+45	
1-1 4 - 4			CHARD RAIL TYPE B
5	c	614	
		6	21+02 - 23+55 Rt 253,3 26+45 - 27+25 RT 80,0
5 2		E	2L+45 - 27+25 RT 80,0
I TILL TO A TO A SECOND		1 C 1 T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TeTAL 333.3
		25+45	1000
	F		
100	7	10 8	GUARD RAIL THE G
	7		
2 3	š - Q	3	
Z 100 C 12	5 1 2 2 2	The second second	23+55 - 24+55 RT. ICO.O
1		24+55	25+45 - 26-85cr. 140.0
		4 11 Llis I 11	= 25+45 = 26+45 RT. 100,0
7 3		2 2 4 4 11 11 11 21	TOTAL 480:0
2/3		المات المات المؤالات على ا	10176
س کے ۔۔۔۔ ا		1,5	
<u> </u>		1	RAILING, TYPE 5
		<u>1 23+55 : : : </u>	
23-15		•	LEFT SIAE E9.75 RIGHT SIAE E9.75
			Neim 31BE 6 2.15
			TOTAL 179.50
4 1 mm mi m m m m m m m m m m m m m m m m		4	
	7	0	II
		1 10	
	1 8	9	
		15	
	1 - 1 - 1 - 1		
		1 ZI+02	
1,1111111111111111111111111111111111111			
		1	SUMMARY
			TOWN SUANTITY PAGE
			GUARD RAIL, B 333.3 34
			RAILING, TYPE 5 179.5 49:
			EXPLOSION TO THE PROPERTY OF T
COMPUTED BY	JD.	RD	GUARD RAIL, 61 480.0 67,



FORM I. C.—627 Rev. 2-62 10M 8-80

INDIANA STATE HIGHWAY COMMISSION CONSTRUCTION RECORD

PAGE NO 35

ITEM GUACO RA	N 1(1)0 ST	R. NO			CONTRACT NO I - CCCC	2
OVERBUNS AT 8			TRUNS	120.	No. 35	.00
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER-	REMARKS	PAGE
ENTIRE CONTRACT	480	0		480	RUAS PORTION	
THIS ITEM	OF GUA	ed RAIL	WAS	ELI	LINATED ON	
	SEE PO	1. 72.				
		A	ohn	De	e	
		V				
COMPUTED BY JD		CHEC	KED K	J		



FENCE

Fence chaining notes may either be placed in a field book or recorded directly on Form 1C 614 as shown on pages 36-3 and 36-4. Form 1C 615 lends itself well for tabulating the fence lengths on each side of centerline as shown on pages 36-1 and 36-2.



FORM 1. C\$27 Rev. 2-83			_		PAGE	36
10M 8-80	INDIANA ST	RUCTION		ORD		
PROJ. NO. 100 SECTION		R. NO			CONTRACT NO I	
ITEM FENCE (F.	ET.)					36
OVERRUNB AT 8		UNDE	RRUNG_2	06_	.0.60 .1	23.60
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER- RUNS	REMARKS	PAG
ENTIRE CONTRACT	10,560	10,354		206	ROAD ERI	10N 36
CNTICE CONTERO	10,500	10,731			ISONE CES	10.4
			0.0			
THE FENCE W	AS BUILT	AS THE	PLE		ITENDED.	
			Jon	II.	Dae	
COMPUTED BY JD	1	CHE	CKED F	2		1



PAGE NO 36-1 State Form 1864 5M 12-80 INDIANA STATE HIGHWAY COMMISSION CONSTRUCTION RECORD J PROJ. NO. 100-1(1)0 STH. NO. ITEM FENCE (FFT) 5K486465 OH 36-3 1 36-4 STATIONS LENGTHS REHARKS (LEFT) 0+30 - 1+00 73.0 CORNER CUT 1+00 - 5+00 401.0 5+00 -10+00 501.0 10+00-23+00 1360.2 13100-23160 67.0 BR1068 74140 - 25too 71.0 75+00-25+75 75.0 25+75 - 26+00 CORNUR CUT 935 PUBLIC ROAD 27+00-3400 700.7 34+00 - 36+00 201.0 36+00-48+00 1201.7 48-100-50+00 201.0 50+00-52+80 280.0 END 5165.6 TOTAL FENCE LEFT SIDE 5188.0 FREN1 36-2 10,353,6 TOTAL FOR PROVECT 3AY 10,354 TO P. 36 CHECKED PA-COMPUTED BY



State Form 1864 INDIANA STATE HIGHWAY COMMISSION CONSTRUCTION RECORD T PROJ NO. (00 - 1(1)0 STR. NO. ITEM FUNCE (FFD) SKETCHES ON 26-3 1-36-4 RUMPIKS GATION LENGTH (RIGHT) 0130- 1+00 73.5 CORNER CUT 501.5 1+00 - 6+00 6+00 - 11+00 500.8 11+00-22+75 1175.0 22+75-23+60 103.0 BRIDGE 14+40-25+00 70.5 25+00 - 25+75 75.7 COENUR COT 25+75-26+00 84.0 PUBLIC ROAD 71.0 CORNUR CUT 27+00 - 27+50 27+50-49,400 2052.0 48+00-50+00 201.0 50 +00-52+80 280.0 END 5188,0 TOTAL FENCE BIGHT SIDE TO P. 36-1 CHECKED DO COMPUTED BY



		7/
FORM I. C614 8t	ste Form 4238	PAGE NA 56-3
10M 9-80	INDIANA STATE HIGHWAY COMMISSION	FAGS (102
J PROJ NO. 100	CONSTRUCTION RECORD	NTRACT NO. I-COCO
PROJ. NO.	SECTION TO STAND	1
	DETAIL SKETCH	ITEM NO. 36
	T-van (cen)	Fence chained
	FENCE (F.F.T)	Oct. 16, 1969
STA	0+00 10 26+30	1 Doe
		~ R. DOE
+00 93.5	+75 + 15 84.0 +co	
150.	75.0	
25+00 6	0 140 140 70 20 60 DR UGE	
	111/460 100/25	1-333331
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5		
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15100	COLIPUT	ATIONS ON
	1-8-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	1 2/ 2
	[F.F. 30	-1 1 36-2
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	11+00	
10	100	
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5100 70	VI III	
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1	10) 1100 1400 735	SUMMARY
0130	100	SUANTITY PAGE
5 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Learning Print Land Line and Line	
	STREET	
COMPUTED BY	D CKD PP	



PRINT C. 44. State Form 4288	36-4
the state of the s	PAGE NOT 16
10M 9-80 INDIANA STATE HIGHWAY COMMISSION CONSTRUCTION RECORD	
	ACT NO. T-OCCO
DETAIL SKETCH	ITEN NO. 36
FENCE (F.F.T.)	Fence chained
STA 26730 TO 52+80	Oct. 16, 1969
	V 1. Doe
END CONTRACT	m R. Doe
+8c 52150	
500 0 6 50	
No. of the second secon	
50+00	11711114
50 8	
	1 Ext 1 22 at 1, ; , ; , ; ; ; ;
48 400	
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45100	
COLIPUT	ATTONS ON
Р.Р. 36	-1 1 36-2
	1, 1 1 1 1 1 1 1 1 1 1 1
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36100	
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34+00	
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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
27100 +50 7.0 +c0	
27100 +50 71.0 +00 FOR ROBIC ROAD 129 1134	SUMMARY PAGE
TUDULC FORU.	
COMPUTED BY 10	
the second of th	



SIGNS OR BARRICADES

Original notes for each pay item should list, and number, each sign or barricade used. This listing should show a date on which the sign or barricade was placed and also a date when it was no longer required at a given location. When a sign with the same message as one used previously is required, the listing should show that the original sign was reused. All movement of signs and barricades is in accordance with article 801.14 of the specifications. Include a sketch to pinpoint the location of all signs and barricades.

Original notes for all signing items shall be maintained in a field book and kept current. Listings shall include all information included above.



FORM I. C.-627 Rev. 2-62 INDIANA STATE HIGHWAY COMMISSION 10M 8-80 CONSTRUCTION RECORD CONTRACT NO. I-CCCO T PROJ. NO. 100 SECTION (1) O STR. NO. ITEM STANDARD UNDERRUNG. LOCATION AND QUANTITY PLACED OVER- UNDER-QUANTITY ON PLANS REMARKS PAGE ROAD PORTION ENTIRE CONTRACT AS PLANHED CHECKED KD

State Form 2602

COMPUTED BY JD



FORM 1. C .-- 627 Rev. 2-62 INDIANA STATE HIGHWAY COMMISSION 10M 8-80 CONSTRUCTION RECORD ((1) O STR. NO. I PROJ. NO. 100 SECTION CONTRACT NO I-6006 STANDARD No 38 UNDERRUNG_ LOCATION AND QUANTITY ON PLANS QUANTITY PLACED OVER-UNDER-REMARKS PAGE ENTIRE CONTRACT ROAD PORTION 4 PLANNED AS John Dole

COMPUTED BY JD

CHECKED RA



FORM 1. C .- 627 Rev. 2-62 INDIANA STATE HIGHWAY COMMISSION 10M 8-80 CONSTRUCTION RECORD I PROJ. NO. 100 SECTION 1 (1)0 STR. NO. I-0000 CON STRUCTION No. 39 100.00, 300.00 UNDERRUNS. LOCATION AND QUANTITY ON PLANS QUANTITY OVER-UNDER REMARKS PAGE RUNS BOOK 1 ENTIRE CONTRACT 13 16 WERE OHITTED ON THE LEFT PREWARNING SIGNS OF THE CONTRACT DUE TO THE SIDE AT THE START FACT THAT THEY WOULD HAVE REEN INEFFECTIVE IN AN URBAN AREK WHERE PARKING WAS PERMITTED. 8706 10 lin

CHECKED CD

State Form 2602

COMPUTED BY JD



Explanation Sheet 40a

SODDING

Original notes may be kept on form 1C401A or in the field book. Areas that can readily be broken into trapezoids with their bases perpendicular to centerline should be tabulated on the left part of the sheet. If sketches are required, they should be shown on the right side of the sheet.



FORM J. C.—421 Rev. 2-62 10M g-gg	CONST	ATE HIGHW		ORD		0_
T PROJ. NO. 100 SECTION STANDS OVERAUNS 609 AT 8 CO			RRUNS		CONTRACT NO. I-CCCC	<u>)</u>
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER- RUNS	REMARKS	PAGE
ROAD PORTION	2700	2107	_7			40-2
ACCESS ROAD	200	202	602			40-
TOTAL CONTRACT	29xx	র্ফা০প	609			
ADDITIONAL THE FENCE ALC DAMAGING EROS	NG THE	S NEEDED ACLESS		EDIATO TO		
COMPUTED BY JD		CHE	KED (<u>}</u>		



FORM I.C. -401A State Form 38928 INDIANA STATE HIGHWAY COMMISSION

5M 3-79

CONSTRUCTION RECORD

			COIV	JINUU	TION RE	COND
Pro	ject No.	100		Section	1(1)0	Contract No. I - 0000
ITEM SOAT	21116	(LE	(F-T)			ITEM No. 40
STATIONS	END WIDTH FEET	SUM OF END WIDTHS FEET	LINEAL DISTANCE	AREA SQ. FT.	TOTAL	ORIGINAL NOTES 10/15/69 WJb NOTES, SKETCHES AND REMARKS ~ RD
0+30 +77 +75 1 +50	0.0 20.0 4.0 8.0 10.0	30.0 12.0 18.0 20.0	50	675 150 450 500		& RCAD 26+30
+00	2.1		0			SKETCH 2215
25+55 26+10	4.4	<u>sker</u>	· .	2091		25+55 210 9 ±
PORICKOAD						AREA: $17.2 \times 14.6 \times 1/2 = 126$ $\frac{1}{2}(21.0 + 27.0) 19.7 = 473$ $\frac{1}{2}(27.0 + 27.9) 36.2 = 994$
						$\frac{1}{12}(27.5 + 16.4) 18.4 = 408$ $\frac{1}{16.4 \times 5.2 \times 12} = 43$ $\frac{1}{12}(6.7 + 4.4) 8.4 = 47}{1000000000000000000000000000000000000$
52+60	2.7					·
72.00	<i>L</i> , !		jork	١	12,330	SF LEFT SIDE ROAD PORTION TO PG. 40-2



Page No. 40-2 FORM I.C. -401A State Form 35928 INDIANA STATE HIGHWAY COMMISSION 6M 3-79 CONSTRUCTION RECORD Contract No. I - 0000 T Project No. 100 Section 1(1)0 SUDDING (RIGHT) ITEM No. 40 ORIGINAL NOTES 10/15/69 WJ.D.
NOTES, SKETCHES AND REMARKS ~ R.D. STATIONS TOTAL 0+30 27 SKETCH 25+00 2.7 FUBLIC ROAD PUBLIC RUAD 26+50 SKETCH" B" 2026 27+15 18.4 AREA: 215 x 13.6 x 1/2 = 146 12 (215.273) 29.32 593 12(27.3+20.4) 37.9= 908 12(206+ 9.4) 21.2= 318 Yz (11.8+8.4) 6.0 = 61 TOTAL 2026" 52+80 12,033 SF TOTAL FROM A5 40-1 12,330 TOTAL POAD APPTION 24, 363 SE = 2707 Syb

TO PG. 40



Page No. 40-3 FORM I.C. -401A State Form 35928 INDIANA STATE HIGHWAY COMMISSION 5M 3-79 CONSTRUCTION RECORD T Project No. 100 Section (1) O Contract No. I - COOO ITEM SODDING (ACCESS ROAD #1) END WIDTH FEET OF END LINEAL DISTANCE STATIONS AREA SQ. FT. TOTAL NOTES, SKETCHES AND REMARKS 19F1 5108 ORIGINAL NOTES 10/16/69 31+00 8.0 16.0 AS 1160 32+45 8.0 306.L- M 10.0 20.0 145 - R.DOE 100 10 155 10.0 8.0 16.0 +55 45 360 33100 8.0 TOTAL LEFT 1620 RIGHT SIDE 26+00 8.0 16.0 700 Ston 33+00 8.0 TOTAL RIGHT 5600 7220 SF TOTAL ACCESS ROAD = 802 Syb TO PG. 40

ED-

CHECKED

COMPUTED BY JD



Explanation Shect 41a

SEEDING ITEMS

The original notes for all of these seeding items are to be kept on weigh tickets, Form 1C 599. These should be grouped daily and posted on Form 1C 115 for summary. The sodding price includes the cost of limestone and fertilizer used under it. It is best to keep an accurate record of all fertilizer and limestone applied to the project, then deduct the theoretical quantities required for the sod to get the correct quantities to pay for as separate items.

Form 1C 647 is to be used for computing the percent of moisture in mulching material. The forms dated 4-1-72 have a formula shown which based the percent of moisture on the wet weight of the mulch. This is correct for the 1980 Specifications.

It should be noted that the moisture content is to be computed to the nearest 0.5% by specification.

There must be a statement on the 1C 627 that the agricultural lime and fertilizer used under the sod have been deducted.



FORM 1, C.--621 Rev. 2-62 10M 8-80

INDIANA STATE HIGHWAY COMMISSION CONSTRUCTION RECORD

PAGE NO.

ITEM FURNISHING	& PLACING	1 AGRIC	ULTURA	- LIME	STONE NO 41	
OVERRUNS AT 8			ERRUNA_	.4A	. 10.00 . 14.0	00_
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER- RUNS	REMARKS	PAGI
ROAD PORTION	12.0	10.9		1.1		41
Access Romo	1.0	0.7		0.3		41.
TOTAL CONTRACT	13.0	11.6		1.4		
	SUBSTAN	TIALLY /	SA	VNNE		
			Jr	hu	boe	
· · · · · · · · · · · · · · · · · · ·						
			CKED (



PORM 1. C	tate Form 1864			PAGE NO -
5M 12-80		STATE HIGHWAY		
Т	100-1(12)			ONTRACT NO I-CCCO
	ung ; Pencing			
STATIONS	3740	POUNDS		
LtR 0100-16	130 10/1169	12,000		
LAR 26+30-5	2180 1018/65	14,000		
		26,000	TOTAL USE	4
			PEOFATED IN	STANIXORAL
			PROFORTION	TO AREAS SEEDEL
		24,000 #		
Acco	iss Pond	1,000 #		
	T FOR JUD	@ 27/1	CAG	
ROAD	PORTICAL THA	0 × 4000	= 2237 lbs	
Acces	S ROAD 484	2 × 4000	= 663 lbs	
		24,000-22	27	
	n Remon	2000	= 10.9 T	ONS TO P. 41
Acc	ess ROAD	2,000-663	= 0.7 70	NS TO P. 41
Washington or a second				
COMPUTED BY	D	CHECK	EO PP	



FORM I. C.--427 Rev. 2-62 10M B-80

INDIANA STATE HIGHWAY COMMISSION CONSTRUCTION RECORD

PAGE NO 42

I PROJ. NO. 100 SECTION 1(1) O STR. NO. ITEM FURNISHING & PLACING FERTILIZER OVERRUNS. LOCATION AND QUANTITY ON PLANS PLACED OVER-UNDER REMARKS PAGE RUNS ROAD PORTION 42-1 1.20 1.20 ACCESS ROAD 0.10 42-1 0.10 TOTAL CONTRACT 1.30 1.30 AS PLANNER ha Dre

COMPUTED BY JD

CHECKED PA



AGE NO 42-1

БМ	12-80			- 11

INDIANA STATE HIGHWAY COMMISSION CONSTRUCTION RECORD

T PROJ NO. 100-111)		RUCTION	N RECORD	\sim
ITEM FUICHISHING ?		L FERTIL		
				-
STATIONS	DATE	POUNDS	REHARTS	
0+00-26+30 LIR	10/2/69	150	USED UNDER SOD	
26+30-52+801 LR	10/9/69	83	USED UNDER SOD	
				_
0+00-40+00 R	10/10/69			
40+00-52+80 E	10/11/69	විතර		
52+80-40+00 L	. ,			_
40+00 - 0+00 L	10/12/69	800		_
		2633	TOTAL ROAD PORTION	
		-223	= 2707 1840 × 400 - FOR SOD	_
		2410	NET = 1.205 TONS	
			TO P. +2	_
26+00-33+00 AR		66	USGO CNOGE SOD	_
26+00-33+00 AR	10/12/69	200		
		266	TOYAL ACCESS RUAD	
V		-66	= 802/4840 × 400 - for 500	
		200	NET = 0,100 TONS	_
			70 P. 42	
				_
				_
				_
				_
			0.7	



ev. 2-62 OM 8-80		RUCTION		ORD		
PROJ. NO. 100 SECTIO		R. NO		со	NTRACT NO I-00	
TEM FURNISHING	& PENCINE	SEED			No. 4	3
VERRUNS AT 8		UND	ERRUNS	AT (
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER- RUNS	REMARKS	PAGI
ROAD PORTICAL						12
KOAD FORTION	660	660				43-
Access Road	55	55				43
TOTAL CONTRACT	715	715				
		AS PL	ANNEL	n de	L	



гоям I. C.—418 sev. 4-si State Form 1864					PAGE NO 13-1
M 12:80 IN			VAY COMMI		T AGE HOWEL
I PROJ. NO. 100 - 1 (I)	0	STR. NO			TRACT NO I-DOOD
ITEM TOCKINSPITALL	I CFSC	INCL	CC/13		No
STATIONS	DATE	POUNDS			
0400 - 40400 R	10/10/69	220			······································
40+00-52+80 R	10/11/69	220			
40+00-0+00 L	10/12/05	220			
		660	TOTAL	ROAD	PORTION P. 43
26+00 - 34+00 AR	10/12/10	55			S ROAD
ourse office we	1010)	- 55	101710	TO P.	43
					
			00		
COMPUTED BY		СН	ECKED R		



FORM 1. C.-627 Rev. 2-62

10M 8-80

INDIANA STATE HIGHWAY COMMISSION CONSTRUCTION RECORD

	14
PAGE NO.	

LOCATION AND	QUANTITY	QUANTITY	OVER-	UNDER-	REMARKS	PA
DESCRIPTION	ON PLANS	PLACED	RUNS	RUNS		-
						+
CAD PORTION	12.00	12.4	0.4			45
						+
LUESS RUAD	1,00	1.00				Ī
						+
TOTAL CONTRA	r 13.00	13.40	0.40			+
						-
THE 3%			RENS	MAR	E CONTROL	+
ADIC THE C	204041111	TURCED	03	ern	dre	
			0			-
						+
						-
						+



PORM I. C .--- 815 REV. 4-81 BACK NO 44-1

INDIANA STATE HIGHWAY COMMISSION CONSTRUCTION RECORD

I PROJ NO 100 -			CONTRACT	No 1-0000
ITEM FOR ALSHING	3 CECIME	1-TULCH1K	JOY KINTERIFIE	NoT_
DELIVERY DATE	WEIGHT	MOISTURE	WEIGHT ADJUST.	Neigh
10/11/69	9,520	5.5 (P.44)	2)	9520
10/12/69	9,250	10.5 (P.44-	9250 (110)	9210
10/13/69	8,020	3.0 (P.44-)	8020
			TOTAL	26,750
	ALLOW FOR	Access	ROAN	2000
				= 1.00 TON TO PGT. 40
		ROAD POR	770N 26,750	
	•		- 2000	
			24.750=	12, 375 TOW!
			SAY	12.40
				TO PG.44
COMPUTED BY JD		CHECKE	0(0)	



44-2

I.C. 647 Rev. 4-1-72

Distribution:

Central Office District Office Project File CONTRACT NO. <u>I-000</u>

PROJECT NO. <u>1-100-1(1)0</u>

DATE: 1011169

MOISTURE DETERMINATION FOR MULCHING MATERIAL

\$	Sample No		•	
Weight of Wet Mulch and Conta	iner		6.28	lbs.
Less Weight of Container			1.00	lbs.
Net Weight of Wet Mulch		(A)	5.28	lbs.
Weight of Dry Mulch and Conta	iner		6,00	lbs.
Less Weight of Container			1.00	lbs.
Net Weight of Dry Mulch		(B)	5,00	lbs.

100 X $\frac{\text{(A-B)}}{\text{B}}$ = M = Percent of moisture in Mulching Material to nearest 0.5 percent.

Computation: (100)(0.28) = 5.6% SAY 5.5% TO P61. 44-1

Remarks: THIS REPRESENTS STRAW SHOWN ON IC 599 # 73632

signed Robert Doc
Title INSPECTOR

Samples to be numbered consecutively. Each weigh ticket for mulching material must bear its correct sample number.



I.C. 647 Rev. 4-1-72 10-M 9-73 Distribution:

Central Office District Office Project File

CONTRACT NO. I- 0000_ PROJECT NO. 7 -100-100 DATE: 10/12/69

MOTORIDE DEPENDATION FOR MILICUTAL MAMERIAL

MOISTONE DETERMINATION FOR	(PIOLICITATIV	OFINILITIES	
Sample No			
Weight of Wet Mulch and Container		6.52	lbs
Less Weight of Container		1.00	lbs
Net Weight of Wet Mulch	(A)	5.52	lbs
Weight of Dry Mulch and Container		6.00	lbs
Less Weight of Container		1.00	lbs
Net Weight of Dry Mulch	(B)	5.00	lbs
·			

100 X $\frac{\text{(A-B)}}{\text{B}}$ = M = Percent of moisture in Mulching Material to nearest 0.5 percent.

computation:
$$(100)$$
 [5.52-5.00] = 10.4% SAY 10.5%

REMARKS: THIS REPRESENTS ALL STRAW DELIVERED 04 10/12/69

Signed_	Robert Doe	
Title	INSPECTOR	

Samples to be numbered consecutively. Each weigh ticket for mulching material must bear its correct sample number.



44-4

I.C. 647
Rev. 4-1-72
10-M 9-73
Distribution:

Central Office District Office Project File CONTRACT NO. <u>I-0000</u>

PROJECT NO. <u>J-100-1100</u>

DATE: <u>10 (369</u>

MOISTURE DETERMINATION FOR MULCHING MATERIAL Sample No.

Weight of Wet Mulch and Contain	ner		6.15	lbs.
Less Weight of Container			1.00	lbs.
Net Weight of Wet Mulch		(A)	5.15	lbs
Weight of Dry Mulch and Contain			6.00	lbs
weight of Dry Mutch and Contain	iel			
Less Weight of Container			1.00	lbs
Net Weight of Dry Mulch		(B)	5,00	lbs.

100 X $\frac{(A-B)}{B}$ = M = Percent of moisture in Mulching Material to nearest 0.5 percent.

computation: (100) (5.15-5.00) = 3.0% MOISTURE 5.00 TO PG. 44-1

Remarks: THIS REPRESENTS ALL STRAW DELIVERED ON 10/13/69

signed Robert Doe
Title INSPECTOR

Samples to be numbered consecutively. Each weigh ticket for mulching material must bear its correct sample number.



Explanation Sheet 45a

ITEMS: BRIDGE CONCRETE & REINFORCING STEEL

The quantities shown on the plans for these items are to be accepted as correct unless normal checking proves otherwise. If the quantities are found to be otherwise, then detailed calculations should be submitted with Form 1C 626 which corrects the plan quantity. When this procedure is followed, we can have the computations checked by the Division of Design. In some cases they will issue revised plans showing the corrected quantities.

This procedure should be followed for all classes of concrete and reinforcing steel for bridges. \cdot



FORM 1. C.-627 Rev. 2-62 10M 8-80 PAGE No. 45

INDIANA STATE HIGHWAY COMMISSION CONSTRUCTION RECORD

T PROJ. NO. 100 SECTION 1(1)O STR. NO. 100-1-1111 CONTRACT NO I-OCCO

ITEM (LASS "A" CONCRETE IN SURERSTRUCTORE NO. 45

UNDERRUNG AT 8						
QUANTITY ON PLANS	QUANTITY PLACED	OVER-	UNDER	REMARKS		PAGE
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	TUANNE	1 ^	-	Doe		
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	GUANTITY ON PLANS 59.3	GUANTITY GUANTITY PLACED 59.3 59.3 AS PLANNE	GUANTITY QUANTITY OVER- ON PLANS 59.3 59.3 AS PLANNED GUANNED QUANTITY QUANTITY OVER- UNDER- RUNS 59.3 59.3 AS PLANNED GUANTER GUANTER GUANTER GUANTER GUANTER GOAL GUANTER GUA	QUANTITY QUANTITY OVER UNDER RIS	QUANTITY QUANTITY OVER RUNS REMARKS 59.3 59.3 SEE RANS AS PLANNED JOR	

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FORM 1. C .- 627 Rev. 2-62 INDIANA STATE HIGHWAY COMMISSION 10M 8-80 CONSTRUCTION RECORD I PROJ. NO. 100 SECTION 1(1)0 STR. NO. 100-1-1111 CONTRACT NO I - 0000 CLASS "B" IN FOOTINGS UNDERRUNS. LOCATION AND QUANTITY ON PLANS QUANTITY PLACED OVER-UNDER-REMARKS PAGE RUNS SEE PLANS 18 95.1 100-1-1111 95.1 AS ACAMHED

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State Form 2602

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FORM I. C.—627 Rev. 2-62 10M 8-80	CONST	TATE HIGHW	REC	ORD		PAGE NO.	17
I PROJ. NO. 100 BECTIC					CONTRACT	No. I-000	
ITEM CONCRETE, C	LASS "B"	ABOVE T	00711	145		No. 4	7
OVERRUNE AT 8		UNDE	RRUNS	A	T #		
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER- RUNS	R	EMARKS	PAGE
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100 -1-1111	94.3	94.3			SEE	PLANS	18
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State Form 2602

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FORM 1. C.-627 Rev. 2-62 INDIANA STATE HIGHWAY COMMISSION 10M 8-80 CONSTRUCTION RECORD T PROJ. NO. 100 SECTION 1(1)0 STR. NO. 100 - 1-111 CONTRACT NO I-0000 ITEM REINFERCING STEFF OVERRUNG 300 AT . 0.15 . 45,00 UNDERRUNS LOCATION AND QUANTITY ON PLANS QUANTITY PLACED OVER-RUNS UNDER REMARKS PAGE RUNS 100-1-1111 25,460 25,760 300 48-1 TOTAL (DAT. OVERRUN EXPLAINED AND APPROVED ON FORM KESD; PG. 69, ahu Doe

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PORM 1. C .--- 618

PAGE NO. 48-1

INDIANA	STATE	HIGHWA'	Υ	COMMISSION
CON	STRU	CTION	R	ECORD

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PROJ N	0 100-1	∞ $$	STR. NO.	100-1-1	III CONT	TRACT NO
ITEM_REI	VFC/2CIN	10 5	TEEL			No. 48
	STEEL	WAS	PLACED	AS	PLANNED	
AN	ERRAP	in t	ARU ATI	JG TH	E REQUEE	O STEEL
						SEE PG1.69,
MVZ	POUNIS	HAID	WICKE	ED CN	10000	DCC FOI. 67
	D.	N	QUANT		25112#	
	-			1774	25,460#	
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Rev. 2-62 10M 8-80 PROJ. NO. 100 SECTION		RUCTION	REC	ORD	CONTRACT NO I COC	2
ITEM RAILING	(TYPE	5 or C)			No. 49	
OVERRUNE AT 8		UNDE	RRUNS	^	T 8	
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER- RUNS	REMARKS	PAGI
STR. 100-1-1111	180	180			TOTAL CONTRACT	34
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FORM I. C.--627 Rev. 2-62 10M 8-80

INDIANA STATE HIGHWAY COMMISSION CONSTRUCTION RECORD

PAGE No. 50

TEM FURNISHING	Equiphe	NT FOR	DRIVI	NETF	ILES NO 50)
VERRUNB AT \$		UNDE	RRUNG.		T 8	
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER- RUNS	REMARKS	PAG
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		4	A-1	ı
PAGE	No	-	<u></u>	ı

INDIANA	STATE	HIGHWAY	COMMISSION
CON	STRU	CTION F	RECORD

CONSTRUCTION RECORD
I PROJ NO. 100-1110 STR. NO. 100-1-111 CONTRACT NO. I-0000
ITEM FLENISHING EQUIPMENT FOR DRIVING PILES NO 50
ORIGINAL NOTES
Octobra India
ONE SET OF EQUIPMENT WAS REQUIRED AND FUENISHED.
TO PG. 50
John Doe
V
COMPUTED BY IN CHECKED 7 8-



Explanation Sheet 51a

PILES FURNISHED AND DRIVEN

For timber piling, treated or untreated, a record of the piles order should be included in the Construction Record. The orders will justify the length of each pile placed in the leads. It should be recognized that the methods of producing timber piles does not lend itself to obtaining all of the length placed in the leads should not exceed the ordered length plus one foot.

For steel piling, the pay item is "Pile Shells Furnished and Driven" or steel H piles furnished and driven.

The pile driving records are the original notes. They should be verified and signed by a contractor representative at the time of placement. The final pay lengths to be paid for should be taken from the pile driving records, Form 1C 225. The total length placed in the leads is the length furnished. The total length below cut-off is the length driven and the pay length.

Form 1C 226, order for piling, should be included in the record as well as the pile driving record.



FORM I. C .-- 627 Rev. 2-62 INDIANA STATE HIGHWAY COMMISSION 10M 8-80 CONSTRUCTION RECORD I PROJ. NO. 100 SECTION 1 (1)0 STR. NO. 100-1-1111 ITEM TIMBER PILES FURNISHED TREATED AT . 2.00 . 300,00 UNDERRUNE LOCATION AND QUANTITY PLACED QUANTITY ON PLANS OVER-UNDER-REMARKS PAGE 400 52-2 STR. 101-1-1111 550 150 25 FOOT PELES WERE ESTLIPTED PILES WERE REQUIRED Show

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State Form 2602

COMPUTED BY JD



51-1

Form IC-226 Rev. 2-64

State Form 3167

INDIANA STATE HIGHWAY COMMISSION

2M 6-79

DIVISION OF CONSTRUCTION

ORDER FOR PILING

Contract No. 10 Structure No. 10 Project No. 1	0-1-1111	Piling Order No. Date APRI	1 15,1969
TO GENERAL NAPTOWA INDIANA			
This will be "concrete piles (freated timber piles) untreated timber piles "steel H piles "steel hpiles hell	as listed below.	site of the above ment	ioned structure
	Number piles, each Leng	feet long.	
Prev. ordered _	The tabulation of all piles orde	ted length is	Lin Et
	Yours Title	Very truly, JAKN DA PROJECT FI	L NGINEER

OPIG TO CONTRACTOR DUP TO CENT. OFFICE TRIP. TO DIST. OFFICE QUAD. TO PROJ. FILE



51-2

Form IC-226 Rev. 2-64

State Form 3167

INDIANA STATE HIGHWAY COMMISSION

2M 6-79

DIVISION OF CONSTRUCTION

ORDER FO	OR PILING
Contract No. I-0000 Structure No. 100-1-1111 Project No. I-100-1(1)0 TO GENERAL CONSTRUCTION CO	Piling Order No. 2 Date APRIL 29, 1969
MARTOWN Contractor	·
This will be your authority to deliver treated timber piles untreated timber piles steel H piles steel H piles steel pile shells	r to the site of the above mentioned structure
Number piles, each	35 feet long. Length feet long. Length
This orderpiles, whose ac	recumulated length is 490 Lin. Ft. Execumulated length is 60 Lin. Ft. Execumulated length is 650 Lin. Ft. Execumulated length is 650 Lin. Ft.
GPIG. TO CONTRACTOR	Yours very truly, John Dae Title PROJECT ENCINEER

OPIG. TO CONTRACTOR DUP TO CENT, OFFICE TRIP. TO DIST. OFFICE QUAD. TO PROJ. FILE



FORM I. C.—627 Rev. 2-62 10M B-80		TATE HIGHW			PAGE NO.2	52
I PROJ. NO. 100 SECTI	on 1()0 er	RUCTION RIVEN, T	1-1111		CONTRACT NO I-CO	
OVERRUNE 137 AT .	1.50 . 205	5.50	ERRUNE	ED_AT	No	2
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER- RUNS	REMARKS	PAGE
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STRUCTI			L-1111					RECORD NO.
PROJEC				F	PILE DI	RIVING	i	FOR TREATED TIM
TYPE STRUC					REC	ORD		FOR TREATED TIME LINK BLL 446 TYPE HAMMER
Found, and Pile Number	Length Put in Leads	Length Cut off	Length Below Cut off	Total Penciration Last 2.0Blows	Weight a	and Erop	Bearing Value in Tons	Remarks Bearing Required, Etc.
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	0	0	0		TOTALS LA	ST REPOR	г	ALLOWABLE
	60.0	0	60.0		TOTALS	TO DATE		



52-2 Form IC 225 Rev. 6-5-50 INDIANA STATE HIGHWAY COMMISSION DATE 5/12/69 5M 280 CONTRACT NO. T-COCO STRUCTURE NO. 100 - 1-1111 RECORD NO. 2 + FINAL PROJECT NO. I-100 - 1(1)0 PILE DRIVING TYPE STRUCTURE SLAS TOP RECORD

13 11,100 3 11,100 13 11,100 13 11,100 13 11,100 13 11,100 13 11,100 15 12,400 15 11,400 11,400	30 25 TOHS REQUIRED 32 39 31 31 32 32 32 32 31 31 31 31 31 31
13	32 37 X PATED OUTPUT X 80% 37 32 34 32 32 32 34 36 37 37 38 38 38 38 38 38
4 11,600 13 11,100 13 11,100 13 11,100 13 11,100 13 11,100 15 12,400 13 11,100 15 12,400 13 11,100 15 12,400 15 14,000 14,000 15 1	39 32 37
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ion of flow of stream.	D. C. C. C.
	Committee of the Sunday region of the contract



FORM I. C .- 627 INDIANA STATE HIGHWAY COMMISSION 10M 8-80 CONSTRUCTION RECORD I PROJ. NO. 100 SECTION 1 (1) O STR. NO. 100-1-1111 CONTRACT NO. I-CCCO PILES FLANISHED & DEWEN 12" 3 10.00 30.00 UNDERRUNS. OVERRIING LOCATION AND QUANTITY ON PLANS QUANTITY OVER-UNDER-REMARKS PAGE RUNS 160-1-1111 210 207 53-2 PILES HIT SOLID ROCK AT APPROXIMATELY THE ELEVATION SHOWN ON THE PLANS CHECKED RA COMPUTED BY JD



,,		URE NO.	100=1-	-1111-			RIVING		DATE _5 14 69 RECORD NO FOR _ 2" "H"
	PROJECT NO. I - ICO - ICO O					ORD	FOR TYPE OF PILING VILCAN #2 TYPE HAMMER		
	Found, and Pile Number	Length Put in Leads	Length Cut off	Length Below Cut off	Total Penetration Last Last	Weight a	nd Drop r d Energy	Bearing Value in Tons	Remarks Bearing Required, Etc.
	1.3	25.0 TEST F	PILE	8 11 12.	21.	3000_	2.42	17.1	AMERIHATE REFUSAC RE
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	1-2	30.0 16.3 25.0	3.0	13.7 13.3 13.8	000			72.6 72.6 72.6	
	1-6	25.0	11.2	13.1	C	3000	2.42	72.6	
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		46.3	15.9	80.4	4		IS REPOR		ALLOWABLE SPLICES
		146.3	49	20.4		TOTALS	TO DATE		SPEICES



FORM IC 226

SIBB FORM 4287

INDIANA STATE HIGHWAY COMMISSION

DATE 5/15/69

STRUCTURE NO. 100-1/10

PROJECT NO. 1-100-1/10

PILE DRIVING

TYPE STRUCTURE SARS TOP

RECORD

VULCAN # 8 June

Found, and Pile Number	Length Put in Leads	Length Cut off	Length Below Cut off	Ponetration Last 2 CBlows	BPMan	nd Drop r d Energy	Bearing Value in Tons	Remarks Bearing Required, Etc.
4-1	30.0		13	8.	300	2.42	H.5	
	TEST	PLUE	15	21/2	1	1	13.83	APPROXIMATE REFUSA
		12.4	17.60	O	T		72.6	KEGUIRED
4-2	25.0	5,c	20.0	0			72.6	
4-3	25,0	9.3	20,7	0			72.6	
4-4	30.0	7.8	22.2	0			72.6	
4.5	32.8	7.2	25.6	0	1		72.6	SPLICED 25.0 + 7.8
4-6	25.0	4.7	20.3	0	3000	2.42.	72.6	
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BRIDGE FOUNDATION EXCAVATION

Foundation excavation shall be paid for as the item or items shown on the plans, except that if Class X excavation is encountered where nonewas estimated, it shall be paid for at a unit price as set out in this specifications, Section 206. If Waterway Excavation or Common Excavation is made over the area occupied by the foundation, it shall be paid for as such.

The quantity for all classes of foundation excavation, except Class X Excavation, shall be within vertical planes 18 inches outside the neat lines of the footing, unless otherwise shown on the plans or specified. These limites may be extended to include excavation for a suitable sump but shall not exceed a horizontal area of more than 4% of the area of the footing.

The quantity for Class X Excavation shall be within vertical planes defining the neat lines of the footing.

Foundation Excavation (Unclassified): This item is sometimes, but not always, set up for grade separations. If no item is included in the proposal for these structures, no direct payment is made for foundation excavation. When the item is included in the contract, measurement is made from the original ground to the bottom of the footing.

Dry Excavation: Dry Excavation will be an item only where there is an item of Wet Excavation or Class X Excavation. Dry Excavation is measured between the original ground and the top limit of wet excavation. The top limit of wet excavation is shown on the plans and it is normally 1 foot above low water. If there is no item of dry excavation no direct payment is to be made for dry excavation.

Wet Excavation: This item includes all excavation between the upper limit of wet excavation and the bottom of the footing, unless Class X Excavation is encountered. The example shown in this guide shows average ground elevations, from a field book, as the top of wet excavation. When average ground elevations are used, all of the elevations averaged must be at or below the upper limits of the class or excavation being measured.



FORM I. C .- 627 Rev. 2-62

INDIANA STATE HIGHWAY COMMISSION

	10M 8-80		ATE HIGHW			N	
Ĭ	PROJ. NO. 100 SECTIO	N 1 (1) () O OT	R. NO. 100-	1-111		CONTRACT NO T- COL	50
	ITEM WET EXCI	NOTAVA				No. 50	
	OVERRUNG AT 6	10.00 . 731.					
	LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER- RUNS	REMARKS	PAGE
							-
	FOOTING # 2	54	26.8		27.2		54-1
	# 3	54	8,1		45.9		54-2
	SAR TOTAL	108	34.9		73.1	100-1-1111	
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FORM I. C 616	State Form 4288	54-1
10M 9-80	INDIANA STATE HIG	HWAY COMMISSION
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7827	INSIDE, IO, LINE	SAME AS LT. = 108,8 F
	3.0x 9.0 = 117.0"	their all correct in a circumitation in the
DEDL	CT 1.5 × 5.5 = - 8.4	ACTUAL FOR SUMP.
Ne	TAREA - 108.8"	
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	L'ADDED FOR SUMP.	Abb 2.2
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TOTAL A	REA TO FAY	
	T EXCAVATION 111,2	BOTTOM FCOTING 94,0
UPPER	LIMIT WET EXC. 100.0	DEPTH - 3,5
AVE	ROUND ELEV	
AVG, G	(pg. 11, B.R.C #1) 97.0	3.5×111.0 = 14.37 Cys:
the transfer of the state of th		2.7
Botton	FOOTING ELEV.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	140 12, B. R.C. #1) 94,0	+ LEFT SIDE 12,36 CUTO
No	H EXCAVATED 3.0	26.15 SAY 26.8640
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FORM 1. C.—614	State Form 4288	PAGE NO.
10M 9-80	INDIANA STATE HIGHWAY COMMISSION CONSTRUCTION RECORD	DN
T 200 MO 10	O SECTION LO C STR. NO LOO - 1-1111	CONTRACT NO. T-CCXX
	DETAIL SKETCH	HEN NO. 54 55
	ET EXCAVATION & CLASS "X" EX	
L. L.	MIT WET EXCAUNTION	FOOTING NO.3
11 : : : : : : : : : : : : : : : : : :	 	
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	UME = 2 × 108.75 × 1.0 × 1 = 8.06	70 PG 54
	LINET TIME [1	
ARE	OF CLASS "X" 10.0 x 4.0 =	60.0
	SUMP AREA 1.5 x 1.5 =	2.2
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FORM I. C.—627 Rev. 2-62	INDIANA ST	ATE HIGHW	AY CON	MMISSIO	PAGE NO	55
10M 8-80	CONST	RUCTION	REC	ORD		
PROJ. NO. 100 SECTIO	N 1/10 BT	R. NO. 100 -	-1111		CONTRACT NO I -OC	00
ITEM CLASS	*X" Exc	AVATIO	N		No. Ez	
OVERRUNG 7.6 AT & 2	0.00.152	,00 UND	RRUNS	^	Y 88	
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER- RUNS	REMARKS	PAGE
100-1-1111	3	10.6	7.6		AER#3	54
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EVERRUN	DUE TO 1	ROCK EL	EVAT	ION	SHOULD ON	
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COMPUTED BY			CKED ()0		

State Form 2602



ITEMS: SIGNING COMPONENTS

Original notes for each sign constructed should be placed in a field book. These notes should show the exact location of the sign. Footing dimensions should be shown along with length and type of posts. The message should also be shown if the sign is such that the sign number will not reveal the message. The headings of Form 1C 612B may be altered for tabulation of the pay items in each individual sign.

Large signs which require considerable computation should be sketched on Form 1C 614 along with the necessary computations. Summary of the quantities for all signs are entered on Forms 1C 627 for comparison to the estimated quantity.

The "remarks" column on Form 1C 612B can be used to explain overrun or underrun quantities for individual signs.



FORM I. C.—427 Rev. 2-42 TOM 8-80 T_PROJ. NO. 100 SECTION	CONST	ATE HIGHW			PAGE NO.	6
	SIGN FACE	= (INCL	UBES		(CPY) No. 56	>
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER- RUNS	REMARKS	PAGE
ENTIRE CONTRACT	60	135	75		ROND PORTION	56
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CONTRACT NO 1-0000 INDIANA STATE HIGHWAY COMMISSION CONSTRUCTION RECORD Posen i C esas State Form 1818

1Nº 1 83

I FROS NO 1800 - STR NO-STEM STON CHAPACIS

PIPE AND CONCRETE STRUCTURES

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FORM I. C.—614 State Form 4288		PAGE NO.	6-2
10M 9-89 IN	CONSTRUCTION RECO	MMISSION CONTRACT NO	
PROJ. NO. 11CO SECTION	DETAIL SKETCH	CONTRACT NO L	
PMS-1 Si		40+00 R-	
		CRIGINAL)	VOTES OK 11
TYPE A SIGN FA		(TYPE A" FACE)	
	7.56-1	(TIPE A PACE)	
STRUCTURAL S			
$(18+21) 36 = 1$ 93.59×2	181*		
CLASS "B" CONCRE	70 P. 56-1 EN	" VF36	
$2 \times 8 \times (2.5)^{2} \Pi =$ $78.5 \times \frac{4}{27} =$	18.5 CF	21'-12	
	TO 17. 56-1	PLATES 93,59# ex.	
		FROTINGS FROTINGS	
		SUMMARY	
		176M SUAN	TITY PAGE
COMPUTED BY JA	CKD PA		



FORM I. C.—427 Rev. 2-43 10M 8-80	CONST	rate Highw FRUCTION		ORD		7
ITEM SHEET SIG	NS (.08		HICKNI	ess)	CONTRACT NO I-COX	.3
OVERRUNS AT 8			RRUNS	_	T \$	
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER- RUNS	REMARKS	PAGE
ENTIRE COURACT	6.2	6.2			RONS PORTION	56-1
	As ·	PCANNE	>			
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FORM 1. C.—627 Rev. 2-62 INDIANA STATE HIGHWAY COMMISSION 10M 8-80 CONSTRUCTION RECORD I PROJ. NO. 100 SECTION 1(1)0 STR. NO. CONTRACT NO. I-COOC SIGNS (100 MIN. THORNESS) SHEET OVERRUNG... UNDERRUNG... LOCATION AND QUANTITY ON PLANS QUANTITY PLACED OVER- UNDER-REMARKS PAGE ENTRE CONTENT 82.0 82.0 ROAD PORTION 56-1 AS PLANNED CHECKED PD. COMPUTED BY JD

State Form 2602



FORM I. C .- 421 INDIANA STATE HIGHWAY COMMISSION 10M 8-80 CONSTRUCTION RECORD ITEM STRUCTURAL STEEL FOR SIGNS OVERRUNS 1591 AT . 0.80 . 1272.80 UNDERRUNS LOCATION AND QUANTITY ON PLANS QUANTITY PLACED OVER- UNDER-REMARKS ENTIRE CONTRACT FOLD PORTION 56-1 733 2324 1591 ONE SIGN WAS NODED AND APPROVED IC 626, PAGE 73 ON Dohn

COMPUTED BY JD

CHECKED RA.



FORM I. C .- 627 Rev. 2-62 INDIANA STATE HIGHWAY COMMISSION 10M 8-80 CONSTRUCTION RECORD T PROJ. NO. 100 SECTION (1)0 STR. NO. CONTRACT NO I-0000 TYPE "A" 1.00 OVERRUNS... UNDERRUNS_ LOCATION AND QUANTITY ON PLANS QUANTITY PLACED OVER-UNDER-REMARKS PAGE RUNS ROAD PORTION ENTIRE CONTENT 178 174 4 56-1 VARIATIONS FROM PLANNED COLANTITIES ARE EXPLAINED FORM ICGIZB, FRAGE 56-1 ON Doe

COMPUTED BY JD

CHECKED PR



FORM 1. C.-627 Rev. 2-62

10M 8-80

INDIANA STATE HIGHWAY COMMISSION CONSTRUCTION RECORD

PAGE NO. 61

I PROJ. NO. 100 SECTION					CONTRACT NO I-0000	5
OVERRUNG 2.5 AT . 15						
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER-	UNDER-	REMARKS	PAGE
ENTIRE CONTRACT	2.0	4.9	2.9		ROLD PORTION	56-
VARIATIONS	FROM	DIM OU	TLA	nes	ARE EXPLAINE	D
ON FORM	1C 6.12B	, SEE A	7.56	-1.,	(DD) MODINGER	
APPROVED	ONI ICC	26 04	FG.	73		-
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Explanation Sheet 62a

ITEM: PAINTED LINE

Original notes may be either on Form 1C 614, as shown on page 62-2, or in a field book. A summary and computations can be made on Form 1C 615. The totals are then carried to Form 1C 627.

It is to be noted that for a skip stripe, where a 3:5 ratio is painted, only 3/8 of the total length is the pay length of painted line.

1C 599, weigh tickets, are to be prepared for paint used. This is to be done regardless of how "Paint for Traffic Stripe" is to be paid for. This is to be paid for by the lineal foot, not weight.



FORM I. C .- 627 Rev. 2-62 INDIANA STATE HIGHWAY COMMISSION 10M 8-80 CONSTRUCTION RECORD T PHOJ NO. 100 SECTION 1(1)0 CONTRACT NO I-COO ITEM PAINTED LINE AT . 0.25 UNDERRUNG 415 LOCATION AND QUANTITY ON PLANS QUANTITY PLACED UNDER-OVER. REMARKS RUNS RUNS PORTION 62-1 0+40 - 52+80 415 13,000 12,585 26+40-33+00 ACESS ROAD 62-1 240 290 TOTAL CONTRACT 415 13,240 12,825 PAINTED LINES PLANNED AS INCIDENTAL CONSTRUCTION AT THE ENDS OF THE CONTRACT WERE NOT NEEDED BECAUSE IT HAS REEN FRESHLY PAINTED BY OUR DIVISION. MAIN TENANCE

COMPUTED BY JD

CHECKED PA



	PAGE NO. 62-1
CONSTR	TE HIGHWAY COMMISSION RUCTION RECORD
(1)0.	TR. NO. CONTRACT NO I - COOC
IE	No 62
PAY	COMPUTATIONS FROM SKETCH P 62-2
100	SHELLE YELLOW LEFT OF CENTER
5/00	2 x 2550 EDGE STRIPES
1965	3/3 (2590+2650)
100	SINGLE YELLOW RIGHT OF CENTER
100	SNELL YELLOW LAFT OF CENTRE
5220	2(2610) EDGE STRIPES
12,585 TO P.	TOTAL - ROAD PORTION
240	(140)3/8 SKIP STRIPE
240	TOTAL - ACCESS ROAD
	CHECKED RO
	CONSTR (1)0 JE PAY LENGTHS JOO 1965 100 100 12,585 TO P.



	ORM I. C614	State Form 4288	.NA STATE H	ICHWAY CO	MMISSION	Page No	62-2
1	OM 9-80		CONSTRUC	TION RECO	RD	THACY NO	0000
		PAINTED	LINE	IL SKETCH		ORIGINAL 31 Oct.,	NCT85 1969
						JA + R	/
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	200	SKIP LINE					
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	26.32	18 2	LIO' LEFT LEG	SKIP		7 8008	
	COMPU	нпонь он	P. C.Z-1		1798	SUMMARY	JUANTITY PAGE
	COMPUTED B	· LD	KO RE		1 1		



Explanation Sheet 63a

EXCESSIVE OVERRUN/UNDERRUN ITEMS

Unless increased or decreased in quantities and alterations in plans materially change the character or the cost of the work, the contract unit price will be the rate of payment. Any adjusted price would have to be agreed to by all parties to the contract. Any adjustment will be based only on that portion of a major item over or under 20% of the contract quantity or on that portion of a minor item which exceeds 6% of the total bid amount of the contract.

In preparing the final construction record, a copy of all worksheets and the Central Office cover letter must be included with every 1C 626 and 1C 115.



FORM I. C .-- 627 Rev. 2-62

10M 8-80

State Form 2602

INDIANA STATE HIGHWAY COMMISSION CONSTRUCTION RECORD

	12
PAGE NO.	60

PROJ. NO. LO SECTIO	1(1)0 m	R. NO			CONTRACT NO T-000	Q
ITEM B" BORR	OW AT	LOUS	TED	PIZICE	No. 62	
OVERHUNB 22,000 AT 82	9867.65	707.40 UNDE	BNURR	^	VT 9	
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER- RUNS	REMARKS	PAGE
ENTRE CONTRACT	0	22,000	22,000		TOTAL ON ROAD PORTION	63
						-
THIS PRICE BETWEEN TO			i		EGOTIATIONS	
ON 16. 626,			CAR	N 13	EAPLINEIS	
			98	hr.	Dre	
			,			
OMPUTED BY 15			CKED P	2		



FORM I C -- 401 State Form 35927

PAGE No. 63-1

BM 3-79

INDIANA STATE HIGHWAY COMMISSION

m 3-79 					N REC	ORD		T . N	200
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Form IC-640A Rev. 8-76 15M 8-80

INDIANA STATE HIGHWAY COMMISSION DIVISION OF CONSTRUCTION

Page <u>63-2</u>

State Form 3404

REPORT OF MATERIALS USED
AGGREGATE OR BITUMINOUS MIX

	Road	I_	_ Sec.	1(1)0	_					Contract No	I-	0000
	Course In Material Is				_					Project No.	100)
	B-	BUR	Rou	3	MON	гн	MAY		, 19.	69		
	Day of the Month			to Station		Lineal Feet Laid		quare Yards	Number of Truck Loads	Designated Size of Aggregate or Bituminous Mix		Aggregate or luminous Mix CVD. ESa.
	20	STE	# 12						-	*13*	-	6,0
	21	216										6.0
									TOTAL	STRUCTURE		2,0 G 63-1
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	Engineer or		PPROV		10				Tons This	Month		
	Inspector		JA	CR. O	50	ζ			Tons Previo	ously Reported		
	Contractor								Tons Grand	Total		



63-3 Form 1.C. 626 Rev. 5-27-68 INDIANA STATE HIGHWAY COMMISSION RECOMMENDED CHANGE IN PLANS, MATERIALS OR QUANTITIES T Proj. 100 Sec. 1 (1) 0 Contract No. I - 0000 The following change is recommended. (Give location, description and reason) PEAT EXCAVATION AND "B" BOCKEN OVERRUN DUE TO PEAT AND MARL DEPTHS REING GREATER THAN THAT USED IN ESTIMATING PLAN QUANTITIES. AU ADJUSTED "B" BORROW PRICE WAS NEGOTIATED AND AGREED TO BY BOTH PARTIES AS SET OUT IN ARTICLE 109,03 OF THE SPECIFICATIONS. DI CRI ASE S OF CHANGE CONTRACT ITEM QUANT. AMT. 3, PEAT EXCAUATION 0.60 4846 2907,60 +31 P. 3 5. "B" BURROW 3.00 17,791 53,3730 25 -100 63. "B" BUKROWCE ADJUSTED PRICE 7,586 22,000 65,707.40 P. 63 THIS CHANGE DOES NOT RESULT IN A CUMULATIVE CHANGE OF 20° TO ANY ITEM CONSTITUTING 5% OF THE ORIGINAL CONTRACT. 68,615.00 TICREASED ISHMATED COSTS 15, 247.00 Title PROXET ENGR Date 30 APRIL 199 Signed. Notification and consent to this change in plans is hereby acknowledged. By A.B. Ull Date 30 APRIL, 1969 Contractor GENERAL CONSTR. (D. Investigated and the following recommendations made: ATROVAC Title D.C.E. Date 2 LIAY 169 Recommended _ District Engineer Date 2. HAY '69 for Approval.

ein Tille Chaf Huy ENTIR Date 9 MAY 69

Not Authorized



FORM I. C .-- 627 Rev. 2-62

08-3 M01

INDIANA STATE HIGHWAY COMMISSION CONSTRUCTION RECORD

PAGE NO 64

PROJ. NO. 100 SECTION					CONTRACT NO. 1-000	0
ITEM 6" GIROUS			1'-5'	DEEF)	No. 64	
OVERRUND 460 AT 6 0	.88 ,404	.80 UNDE	RRUNS	^	T 6	
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER-	REMARKS	PAGE
ENTIRE CONTRACT	0	40	460		POAD PORTION	24-1
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A)					4	-
DEEP AT THE					NER 4 FEGT	A
SAND STRATA						
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			1		000 C	

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State Form 2602

COMPUTED BY JD



ADJUSTED PRICE FOR FAILED MATERIAL

The Specifications allow the Engineer to permit immediate usage material which has been incorporated into the work prior to testing to remain in place even if the material fails. There may also be other reasons for failed material. In any event, the deduction to be applied will be determined by the Failed Material Committee.

In this example, the Failed Material Committee has determined that the deduction should equal the invoice price of the failed material.

The first step is to determine the number of pay units in which the failed material was used. In this example we assume that 120 barrels of cement failed. The cement was used in 10" pavement at the rate of 1.5 barrels per cubic yard.

The second step is to determine the amount that the price of each square yard is reduced in price by dividing the invoice price of the cement by the number of square yards affected.

This amount is subtracted from the bid price to obtain the adjusted unit price for payment of the item in which the failed material was used.



FORM 1. C.- 627 Rev. 2-62

INDIANA STATE HIGHWAY COMMISSION

10M 8-80		RUCTION	REC		•	
T PRUJ. NO. 100 SECTION ITEM REIN FURCEL OVERRUND 288 AT 8 5	> (CHCRE	TE AVE	MENT,	10"(1	Cy. PRICE NO 65	20
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER- RUNS	REMARKS	PAGE
ENTIRE CONTRACT	0	288	2 88			17-4
THE PRICE	. WAS	ADJUSTER	ON	THIS	PAVEHENT	
1		MMEDIA AGE GE		SAGE	CEMENT.	
		(Jan	u - 02	O.C.	
			()			
				2		

COMPUTED BY JD

CHECKED DA



6,5-1 Form I.C. 626 Rev, 5-27-68 INDIANA STATE HIGHWAY COMMISSION RECOMMENDED CHANGE IN PLANS, MATERIALS OR QUANTITIES 5M 3-79 Proj. 100 Sec. 1 (1)0 Contract No. I-000 The following change is recommended. (Give location, description and reason) TO DELETE THE GUANTITY OF 10" R.C. PAVEMENT IN WHICH 120 BBL. OF FAILED, IMMEDIATE USAGE CEMENT WAS USED. AND TO GETABLISH A UNIT PRICE FOR THE PAVELIENT BY ARTICLE 106.01 OF THE SPECIFICATIONS. # OF CHANGE CONTRACT ITEM QUANT. 17 REINE, CONCECTS PUNT 10" 2016,00 -9 P.17 7,00 L. REINF. CONCRETE, PVHT 10" 5,33 288 1535.04 NOJUSIED PRICE THIS CHANGE DOLS NOT RESULT IN A CUMULATIVE CHANGE OF 201 TO ANY ITEM CONSTITUTING 5% OF THE ORIGINAL CONTRACT TOTALS 1535,04 2016,00 ISTIMATED COSTS 480.96 Title PROJECT ENGR Date 31 AUG, 1949 Notification and consent to this change in plans is hereby acknowledged. CONTRACTOR GRANGEAL CINETIE, CO. By A.B. ace Date 31 AUG. 1969. Investigated and the following recommendations made: APPROVAC Jokes Title D.C. E. Date 4 AUG, '67 Recommended Roses District Engineer Date 4 AUG 169 for Approval ... Authorized Robert Roll Title CHIEF DIVOF COURT, Date 8 AVIL 69



I- 100 - 1(1)0 CONTRACT I- 0000 65-2 2 of 3

WORK SHEET FOR 1.C. 626

FALED IMMEDIATE USAGE CEMENT LAR No. 69-1234

I SYD OF PAVEMENT = 10/36 CYD.

10 x 1.5 = 5/12 bbl of CEMENT REQ'D PER SYD.

120 bbls + 5/12 bbl/syd = 288 syd. PAVEMENT INVOLUED.

TO pps. 17-1 \$ 65-1

480° /288 = # 1.67/S4D COST OF CEMENT

\$700-1167 = \$5.33 SUD ADJUSTED PRICE

JD 8/31/69



I-100-1(1)0 CONTRACT I-000() 65-3

INVOICE

ACME CEMENT CORPORATION GIRGEN CITY, INDIANA

TO: GENERAL CONSTRUCTION CO.
INDIANAPOLIS, INDIANA

120 bbl. TYPE 1A CEMENT @ # 400 BBL - \$14800.



ADDITIONAL EXCAVATION

Computations and sketches are to be made for this type of item, on Form 1C 614.

In order for the record and final estimate to correctly show how payment is made, the quantity to be paid for should not be altered to include it with common excavation. A separate item should be made with the true quantity and true unit price shown. A reference to the specification which jusitfies the price should be made on Form 1C 627. Refer to article 715.12 in the specifications.



FORM I. C.-627 Rev. 2-62

10M 8-80

INDIANA STATE HIGHWAY COMMISSION CONSTRUCTION RECORD

PAGE No 66

OVERRUNS 15 AT 8 2	10.31	50 UNDE	RRUNS	A	T 8	
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER- RUNS	REMARKS	PAGI
ENTIRE CONTRAC	. 0	15	15		Access Ro #	1 66
LINSTABLE EXCAVATED WI BID FOR COMM	TH PAY	MENT A	THE	28 7	1	3168
STECIFICATIONS	PROVID	,				
		Jo	ha	do	<u> </u>	



FORM I. C .- 514 State Form 4288 DETAIL SKETCH ADDITIONAL EXCAVATION STR #16 - 33+00 F.R.#1 EXCAVATION OF UNSUITABLE MATERIAL BELOW PIPE FROM P 26 BOOK 5 PAY @ 3 TIMES COMMON PER ARTICLE 715.12 OF THE SPECIFICATIONS. BACKFILLED WITH AVAILABLE -COMMON-EXCAVATION WHICH WAS · CKOSS SECTION EQUIUNLENT TO B' BORROW. UNSUITABLE MATERIAL



FORM 1. C.-627 Rev. 2-62

INDIANA STATE HIGHWAY COMMISSION

10M 8-80	CONST	RUCTION	REC	ORD		
I PROJ. NO. 100 SECTION	1(1)0 01	R. NO			CONTRACT NO I-000	0
ITEM E.W.A. SE	PTEMBEL	R 10, 1969	- Gu	IARD R	SAIL TYP GNO 67	
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State Form 23088

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INDIANA STATE HIGHWAY COMMISSION

INDIANAPOLIS, INDIANA

Cont. No. I - CCCO
Proj. No. I - 100 - 100

EXTRA WORK AGREEMENT

Str.	No	

	E OF AGREEMENT, made and entered into by and between the	State of Indian	a by South
×4/4	or Executive Director of the State Highway Commis	sion, for and o	n behalf of the State of
Indiana, as party o	f the first part, hereinafter called the State and GIENERA	L CON	STRUCTION
CCMPAN	14 as party of the second p	art, hereinafte	r called the Contractor:
	as been found necessary to perform certain work, not included		
executed under date	e of Z JANUARY , 1969, for the construction of	Contract No	I-0000
Project No. I -	100 , Sec. 1(1)0 , Str. , between station	0+CX) and
	+ 800 , whereas, this extra work is described as follo		
TYPE "G"	GUARD RAIL AS DETAILED ON	STANI	DARD SHEETS
GRA, GR	5 AND GRG, AS THEY ARE I	26.V154 D	> TO
	JARY, 1969,		
Whereas, the S the State and the	Standard Specifications for this contract provides for such work t	o be performed	by agreement between
ploy said contractor construct as direct formed in accordant	I, That for and in consideration of matters hereinafter mentione r to furnish all maternals, (except as otherwise expressly provide by the Department or its authorized representative, the abovice with the plans, specifications and special provisions under viplans and specifications which may accompany this agreement.	ed) and labor e described wo which the cont	necessary and to fully
The State here	by promises and agrees to pay said contractor therefor, for the s following unit prices or lump sums, which prices shall be full c saly provided), equipment, tools, labor and incidentals necessary	ctual amount o	r all materials fexcent
QUANTITY	DESCRIPTION OF ITEM	UNIT PRICE	AMOUNT
480	GUARD RAIL, TYPE "G"	15,00	# 7800.00



FORM 1. C.-627 Rev. 2-62

10M 8-80

INDIANA STATE HIGHWAY COMMISSION CONSTRUCTION RECORD

PAGE NO. 68

LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER-	REMARKS	PAGI
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State Form 2602



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State Form 23088

INDIANA STATE HIGHWAY COMMISSION

INDIANAPOLIS, INDIANA

Cont. No. I - 10000

Proj. No. I - 100 - 1(1) 0

EXTRA WORK AGREEMENT

Str. No.

Whereas, it has been found necessary to perform certain work, not included in original contract and proposal executed under date of. ANUARY, 1969 for the construction of Contract No.	Indiana, as party o	Chief Engineer of the State Highway Commit f the first part, hereinafter called the State and GENER	CAL CO	NSTRUCTIO
Sexecuted under date of C ANUARY, 19 69 for the construction of Contract No. I-0000 Project No. I-100, Sec. 100, Str. , between station	COMPA	NY as party of the second	part, hereinafter	r called the Contrac
Project No. I 100, Sec. 1 (1)0, Str. , between station. O + 000 station. 52 + 80 , whereas, this extra work is described as follows: FUXNISHING! A APPLYING BITUMINOUS MATERIAL FOR TACK COAT IN COMPLIANCE WITH SECTION 409 OF THE SPECIFICATIO Whereas, the Standard Specifications for this contract provides for such work to be performed by agreement between the State and the Contractor. WITNESSETI!, That for and in consideration of matters hereinafter mentioned, the State does hereby hire and ploy said contractor to furnish all materials, (except as otherwise expressly provided) and labor necessary and to formed in accordance with the plane, specifications and special provisions under which the contract was awarded, such supplemental plans and specifications and special provisions under which the contract was awarded, such supplemental plans and specifications which may accompany this agreement. The State hereby promises and agrees to pay said contractor therefor, for the actual amount of accepted Extra W performed, at the following unit prices or lump sums, which prices shall be full compensation for all materials (exas otherwise expressly provided), equipment, tools, labor and incidentals necessary to fully complete the respective it QUANTITY DESCRIPTION OF ITEM UNIT PRICE AMOUNT TACK COAT TACK COAT TACK COAT **Soc.CO** **TONS** **BRUMINOUS** **MATERIAL FOR** **Soc.CO** **TONS** **BRUMINOUS** **TONS** **TONS** **BRUMINOUS** **TONS** **TO	Whereas, it hi	as been found necessary to perform certain work, not included	in original cor	tract and proposal,
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State Form 35926	replaces M26,M618 & IC618	COURSE TACK	T. MAT	tation	(35+	140		42
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IC 4/4	re M2	4M		Station	9+90-24+35	26+65-26+40	Totals	Prepared by Checked by



Form I.C. 626 Rev. 5-27-68 INDIANA STATE RECOMMENDED CHANGE IN				QUANT	(ITIES	(0)	
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State Form 35929					r	70	
Form 1.C. 626 Rev. 5-27-68 RECOMMENDED CHANGE IN 5M 3-79				QUANTI	TIES		
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Investigated and the following recommendations		100					
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Form I.C. 626 Rev. 5-27-68 RECOMMENDED CHANGE IN	E HIGH	WAY CO	OMMISSION			71	
5M 3-79 RECOMMENDED CHANGE IN							
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State Form 35929						1/2	
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Recommended Saul Ares		Distric	t Engineer	Date	9-17-	69	
Authorized					· C)-22		



State Form 35929						73	
Form 1.C. 626 Rev. 5-27-68 RECOMMENDED CHANGE IN				QUANTI	ITIES	1	
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By John Jones	Title	DCE		Date	10-	22-60)
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Not Authorized Detroit Sector	Title	L.MCI,	NO OF CE	Marie Date	1012	61-6	2



COMPARISON OF ESTIMATES

These forms compare the original quantities estimated to the final quantities that are to be paid for. One set of forms should be made for the entire contract on all jobs. On 'B" and "R" Contracts, a separate set is to be prepared for each project, bridge, or access road for which a separate estimate is contained in the proposal.

Sample 1C 642 Breakdown

		Funding			
Contract R-oooo	90-10	70-30	100% Staff	Structure	Project
Project 1 Str 1	642	642	642	642	642
Project 2 Str 1	642	642	642	642	642
Str 2	642	642	642	642	

One additional 1C 642 is necessary with a grant total for the complete contract. Include an item description in addition to the EWA date for all EWA items.



INDIANA STATE HIGHWAY COMMISSION

CONSTRUCTION RECORD

State Form 3952

FC Res 1C 642 St. 8-80

I-0000

CONTR. NO.

STR. NO. 100-1-1111 COMPARISON OF ESTIMATES — ORIGINAL PROJ. NO. I-100-1(1)0

NOTAL CONTRACT

468.00 15.00 2.00 745.00 120.00 53,373.00 173.20 1,778.00 QUANTITY | AMOUNT UNDERRUNS 583 17,791 0 2 149 19,8 30 2,40 20.0 254 37.80 106.50 2907.60 28.00 2.00 1,200.00 103.00 26.65 6.90 DUANTITY | AMOUNT OVERRUNS 4845 300 10.3 太 6 0 2 51.1 9.7 7 235.00 0.00 71,477.70 80,507.20 3,152.00 8,319,60 1,135.00 1,938.00 21,200.00 735.95 12,145.80 42,055.00 5,853,00 19,719.90 1,480.00 7,843.00 20,972.00 17,020.80 1,005.50 AMOUNT FINAL ESTIMATE 6,933 8,411 1,135 585.3 713.0 101,111 100,759 20,243 420 788 1,938 5,300 1891.2 29.60 2,995 4,913 2191.1 671 CUANTITY 71,439.90 81,075.20 250.00 9,238.20 53,373.00 3,124.00 8,319,60 1,133.00 1,940.00 20,000.00 42,800.00 19,170.00 17,199.00 730.05 5,750.00 1,600.00 8,063.00 22,750.00 900.006 AMOUNT ORIGINAL ESTIMATE 102,057 1,940 8,550 PUANTITY 101,34 500 17,791 781 6,933 1,133 5,000 575.0 2130.0 1911.0 32.00 733.0 3,250 4,867 900 15,397 0.70 0.80 0.60 3.00 0.50 4.00 0.15 1.50 PRICE 00.4 5.00 10.00 00.6 00.6 1.20 1.00 50.00 7.00 1,00 11,00 11. Type "P" Compacted Argregate Base 6. "B"Borrow for Structure Backfill 9. Combined Curb & Gutter Removal 18. Reinforced Steel for Pavement 17. Reinforced Congrete Pavement 14. Eit. Mixture for Shoulders 15. Bit. Mat'l for Prime coat 16. Bituminous Base Widening CONTRACT ITEMS -3 12. Bituminous Surface 19. Jontraction Joints 1. Common Excavation 4. Cased Test Holes 8. Pavement Breaking 7. Pavement Removal Peat Excavation 13. Bituminous Base 5. "B"Borrow 10. Subbase Borrow 2, 3

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INDIANA STATE HIGHWAY COMMISSION CONSTRUCTION RECORD

State Form 3952

I-0000

FC RM 1C 642 5M 8-80

COMPARISON OF ESTIMATES -- ORIGINAL AND FINAL 100-1-1111 STR. NO. PROJ. NO. I-100-1(1)0

TOTAL CONTRACT

244.00 180.03 250.00 123.cc 4,800.C AMOUNT UNDERRUNS DUANTITY 2,5 120 305 084 200 60.00 135.00 21.00 18.00 890.00 1,510.00 QUANTITY AMOUNT OVERRUNS 9 151 45 178 0.00 92.00 700,007 2,180.00 2,457.00 1,475.00 116,40 3,954.00 180.00 312.50 3,810.00 1,275.00 6,212,40 1,100.00 2,890.00 1,870.00 425.00 195.00 2,331.00 AMOUNT FINAL ESTIMATE 4,955 18.7 218 182 425 65 333 100 な 120 578 331 10.34 QUANTITY 360.00 92.00 700.00 2,120.00 2,457.00 116.40 4,208.00 2,120,00 1,140.00 177.00 2,310.00 6,336.00 1,100.00 1,475.00 312,50 2,000,00 425,00 2,300.00 4,800.00 ORIGINAL ESTIMATE 5,250 212 21.2 380 182 100 042 230 330 084 7 5 N 400 69 10,560 10.00 62.50 13.50 90.94 425.00 10.00 350.00 14.75 4.83 0.80 1.50 5.00 100.00 3.00 7.00 10.00 0.60 275.00 PRICE Concrete, Class "A" for Structures 28. Aggregate for Subsurface Drains .. Y ... in 6" F.B.C. Non-Perf. C.S. Pipe 32. Paved 31de Ditch, Type "A" 39. Standard Barricades, Type Barricades, Type 25. Culvert End Sections 12" Culvert End Sections 18" 33. Integral Concrete Curb CONTRACT ITEMS 34. Guard Rail, Type "34" ... 42" 20. Pipe: Group "A" 18" 36" 6" Pipe, Group "X" Inlets, Type P-12 35. Guard Rail, Type 22, Pipe: Group "B" 23. Pipe: Group "D" 21. Pipe: Group "B" 36. Fence (F.F.T.) 33. Standard CONTR. NO. 31. Alprap 27. 30° 24. 25. 29.

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INDIANA STATE HIGHWAY COMMISSION CONSTRUCTION RECORD

State Form 3952 I-0000

Ö

FORM 1C 642 CONTR SM 8-80

COMPARISON OF ESTIMATES — ORIGINAL AND FINAL PROJ. NO. I-100-1(1)0 STD NO 100-1-1111STR. NO. 100-1-1111

300.00 14.00 30.00 731.00 AMOUNT UNDERRUNS FOTAL CONTRACT CUANTITY 73.1 40.00 548.10 45.00 300.00 205.50 545.00 152,00 QUANTITY | AMOUNT OVERRUNS 609 7.0 150 137 2.6 2 1,300,00 116,00 893.75 3,158.10 156.00 1,340.00 6,819.50 8,559.00 9,430.00 3,854,00 2,700.00 2,000.00 1,100.00 805.50 349.00 31.00 2,070.00 212,00 1,161.00 AMOUNT FINAL ESTIMATE 11.6 QUANTITY 13 3,509 1.30 715 13.4 59.3 95.1 94.3 25,760 180 550 10.6 537 202 5.75 135 6.2 156.00 1,600.00 2,610.00 130.00 893.75 1,300.00 6,819.50 8,559.00 9,430.00 3,819.00 31.00 2,700.00 2,000.00 60.00 800.00 600,00 2,100.00 1,080.00 515.00 AMOUNT ORIGINAL ESTIMATE 13.0 16 2,900 CUANTITY 1.30 715 13.00 59.3 8.3 95.1 180 25,450 004 00.7 210 69 6.2 100.00 0.90 10.00 115.00 120.00 90.06 100.00 1.29 100.00 15.00 PRICE 0.15 2000,00 2.00 10.00 20.00 5.00 10.00 8 47. Concrete, Class "B" above Footings 45. Class "A" Conc. in Superstructure 57. Sheet Signs (.030 min. thickness) 46. Concrete, Class "B" in Footings 51. Timber Piles Furnished, Treated 41. Furn. & Placing Agr. Limestone 44. Furn. & Placing Mulching Mat'1 50. Furn. Equip. for Driving Piles ¥. 53. Steel "H" Piles Furn & Driven 52. Timber Piles Driven, Treated 42. Furn. & Placing Fertilizer 39. Construction Signs, Type CONTRACT ITEMS 49. Railing (Type 5 or C) Class "X" Excavation 43. Furn & Placing Seed Type "A" Sign Face 48. Reinforcing Steel 54. Wet Excavation 40. Sodding 55. 8

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INDIANA STATE HIGHWAY COMMISSION

952

State Form 39		-	1-0000
			Ö
fenn ic 643	MFV & 13 61	5M 8-80	CONTR.

COMPARISON OF ESTIMATES -- ORIGINAL AND FINAL PROJ. NO. 1-100-1(1)0 CONSTRUCTION RECORD

STR. NO. 100-1-1111 FINAL ESTIMATE ORIGINAL ESTIMATE

QUANTITY AMOUNT UNDERRUNS

QUANTITY | AMOUNT OVERRUNS

AMOUNT

THUNK 82.0

QUANTITY | AMOUNT

PRICE

CONTRACT ITEMS

451.00

451.00

82.0

5.50

58. Sheet Slgns (.100 Min. Thickness)

TOTAL CONTRACT

Net Overrun = \$22,478.29 = 4.957%

1.00	(2)	200.40	476.12	1,02% 20		1,591 1,272.84	_	
1.00								
0.25	178	178.00	174	174.00			7	4.0(
0.25	2.0	300.00	6.4	735.00	2.9	435.00		
	13,240	3,310.00	12,825	3,206.25			415	103.2
# Adjusted Frice Z.9037	0	0	22,000	65,707,40		22,000 55,707.40		
Pipe (4'-5' deep) 0.88	0	0	094	407.80	760	404.80		
55. Reinf. Conc. Pavement 10"(Adj.P) 5.33	0	0	288	1,535.04	288	1,535.04		
66. Additional Excavation (3x Comnon) 2.10	0	0	15	31.50	15	31.50		
67. Type "G" Guard Rail, EWA Sept. 10, 69 15.00	0	0	480	7,200.00	780	7,200.00		
58. Bit Mat'l for Tack, EWA Sept 11,'69 50.00	0	0	1.20	60.00	1.20	60.00		
							-	
	4	453,433.50	7	475,911.79		85,157.84		63,679.5



2.0

15.00

P45.00

178.23

INDIANA STATE HIGHWAY COMMISSION

CONSTRUCTION RECORD

53,373.00 00.894 1,778.03 AMOUNT UNDERRUNS QUANTITY | 17,791 585 149 19.8 30 2.40 25 20.0 ROAD 545.40 6.90 1,200,00 100.00 92.00 2.00 2,907.50 0.70 QUANTITY AMOUNT OVERRUNS 10.0 300 60.6 45 9484 23 736.95 235.00 3,148.00 8,319.60 5,250.00 1,330.00 7,843.00 20,972.00 71,003.10 12,145.80 21,200.00 38,755.00 18,355.40 17,020.80 80,607.20 1,135.00 1,938.00 COMPARISON OF ESTIMATES -- ORIGINAL AND FINAL PROJ. NO. I-100-1(1)0 AMOUNT FINAL ESTIMATE 525.0 27.50 713.0 4,913 6,933 1,135 1,938 5,300 2,040.6 2,995 SUANTITY 470 0 787 7,751 1,891.2 101,433 100,759 20,243 STR. NO. 71,002.40 730.05 81,075.20 8,319.60 1,133.00 20,000:00 39,530.00 5,150.00 17,820.00 17,199.00 1,500.00 8,053.00 22,750.00 9,238.20 250.00 53,373.00 3,056.00 1,940.00 ORIGINAL ESTIMATE AMOUNT 1,980.0 1,911.0 5,000 515.0 6,933 1,133 1,940 7,900 30.00 733.0 3,250 4,857 101,432 17,791 101,34 15,397 200 \$ CHANTITY 0.15 1.00 00.4 5.00 00.6 11.00 0.70 0.80 09.0 0.50 00.4 1.20 1.00 10.00 50.00 3.00 00.6 2.00 PRICE Base Borrow for Structure Backfill Combined Gurb & Sutter Removal Reinforced Steel for Pavement Type "P" Compacted Aggregate Reinforced Concrete Pavenent 311. Mixture for Jhoulders Bit. Mat'l for Prine Coat Eftuminous Bace Widening : 17 CONTRACT ITEMS Bituminous Surface State Form 3952 Pavement Breaking Common Excavation Cased Test Holes Pavement Removal Bituminous Base Peat Excavation I-0000 "B" Borrow Subbase ò Borrow 33 CONTR. FURN 10 648 5M 8-80 15. 18. 7 0 10. 11. 12. 13. 14. 15. 17. 2 ŝ 9 æ

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105.50

71

1,006.50

571

900.006

009

1.50

Contraction Joints

19.



250.CJ

INDIANA STATE HIGHWAY COMMISSION CONSTRUCTION RECORD

State Form 3952

F- No. 1C 042 SM 8-80

I-0000

20. 21. 22.

24. 25.

COMPARISON OF ESTIMATES -- ORIGINAL AND FINAL PROJ. NO. I-100-1(1)0

ROAD

20.00

244.00

180.03

0.008,4 **EMOGNIT** UNDERRUNS DUANTITY 2.5 1:1 305 140 6.30 890.00 165.00 18.00 21.00 AMOUNT OVERRUNS PUANTITY 178 9 250.00 245.00 109.00 144.00 1,780.00 180.00 195.00 6,212,40 700.00 2,475.00 1,475.00 3,954.00 2,890.00 2,331.00 1,100.00 1,300.0 2,435.3 1,870.0 STR. NO. 100-1-1111 AMOUNT FINAL ESTIMATE 10.9 1.20 2,707 178 182 100 120 7 578 18.7 315 65 333 0 7 4.955 10,354 WATTITY 780.00 4,203.00 350.00 250.00 177.00 120.00 144.00 2,475,00 1,475.00 2,310.00 6,336.00 700.00 1,600,00 2,000.00 2,120,00 1,820.C 0.008,4 1,100.0 2,430.0 ORIGINAL ESTIMATE AMOUNT 2,700 12.0 5,250 240 21.2 182 182 100 007 250 330 480 10,560 12 THITMY 4 69 :: 10.00 13.50 62.50 10.00 10.00 14.75 0.80 1.50 5.00 100,00 3.00 7.00 0.60 350.00 275.00 0.90 100.00 PRICE Concrete, Class "A" for Structure: Aggregate for Subsurface Drains Furn. & Placing Arr. Limestone 6" F.B.C. Non-Perf. C.S. Pipe Standard Barricades, Type "A" Standard Barricades, Type "3" Construction Signs, Type "A" Paved Side Ditch, Type "A" Culvert End Sections 18" 3% 42" 18 Integral Concrete Curb Guard Hail, Type "Ba" CONTRACT ITEMS Guard Rail, Type "D" Group "K" Group "A" Group "B" Group "B" Fence (F.F.T.) 6" Pipe: Sodding CONTR. NO. Pipe: Pipe: Pipe:

23.

23. 32.

27.

34.

37. 33.

ż,

1.20

120.00

Purn. & Placin; Fertilizer

41. 42.

33

11.00

300.00



INDIANA STATE HIGHWAY COMMISSION CONSTRUCTION RECORD

State Form 3952 I-0000

CONTR. NO. 5M 8-80

COMPARISON OF ESTIMATES -- ORIGINAL AND FINAL PROJ. NO. I-100-1(1)0 STR. NO. 100-1-1111 FINAL ESTIMATE ORIGINAL ESTIMATE

ROAD

		ORIGINAL	ORIGINAL ESTIMATE	FINAL	FINAL ESTIMATE	OVE	OVERRUNS	UNDE	UNDERRUNS
CONTRACT ITEMS	PRICE	THIMP	AMOUNT	WANTITY	AMOUNT	NAMED	AMOUNT	WANTITY	AHOUNT
43. Furn. & Placing Seed	1.25	099	825.00	999	825.00	0		0	
144. Furn. & Placing Mulching Mat'l	100.00	12.00	1,200.00	12.4	1,240.00	47	40.00		
56. Type "A" Sløn Face	8.60	909	515.00	135	1,151.00	75	645.00		
57. Sheet Signs (.080 min thickness)	5.00	6.2	31.00	5.5	31.00	0		0	
58. Sheet signs (.100 min thickness)	5.50	82.0	451.00	82.0	451.00	0		0	
59. Structural Steel for Slans	0.80	733	586.40	2,324	1,859.20		1,591 1,272.80		
50. Type "A" Posts	1.00	178	178.00	12/4	174.00			77	4.00
51. Class "B" Concrete for Signs	150.00	2.0	300.00	4.9	735.00	2.9	435.00		
52. Painted Line	0,25	13,000	3,250.00	12,585	3,146,25			415	103.75
53. "3" Borrow 3 Adjusted Frice	2,9357	0	0	22,000	65,707.40	ì	22,000 65,707.40		
84. 5" Group "X" Pige (4'-5' deep)	0.38	0	0	450	404.80	450	404.80		
5. Reinf. Cong. Paverent 10" (Adi. P)	5,33	0	0	288	1,535.0	288	1,535.04		
52. Type "7" Guard Bail, 5MA 9/10/59	15,00	0	0	480	7,200.00	480	7,200.00		
58. Bit Mat'l for Tack, EWA 9/11/59	20.00	0	0	1.20	60.00	1.20	50.00		
			405,541.85		425,947.74		83,351.44		52,955.55

52,955.55

Net Overrun = \$20,405.89 = 5.0323



PAGE

Net Overrun = \$1,451.50 = 3.6057

INDIANA STATE HIGHWAY COMMISSION CONSTRUCTION RECORD

CONTR. NO. I-0000

5M 8-80

COMPARISON OF ESTIMATES -- ORIGINAL AND FINAL PROJ. NO. 1-100-1(1)0 STR. NO. 100-1-1111 State Form 3952

BRIDGE

			ORIGINAL	ORIGINAL ESTIMATE	FINAL	FINAL ESTIMATE	OVE	OVERRUNS	CNDE	CNDERRUNS
	CONTRACT ITEMS	PRICE	PUANTITY	AMOUNT	QUANTITY	AMOUNT	OUANTITY	AMOUNT	QUANTITY	AMOUNT
31.	Riprap	10.00	230	2,300.00	381	3,810,00	151	1,510.00	0	
45,	1	115.00	59.3	6,819.50	59.3	6,819.50	0		0	
15.	Class "B"	90.00	95.1	8,559.00	95.1	8,559.00	0		0	
47.	Concrete, Class "B" Above Footings 100.00	100.00	8.3	9,430.00	E-3	9,430.00	0		0	
48.	Reinforcing Steel	0.15	25,460	3,819.00	25,760	3,854.00	300	45.00		
·61:	Railing (Type 5 or C)	15.00	180	2,700.00	180	2,700.00	0		0	
50.	Furn. Squip. for Driving Piles	2,000.00	1	2,000.00	1	2,000.00	0		ō	
51.	Timber Piles Furnished, Treated	2.00	7+00	800.00	550	1,100,00	150	300.00		
52.	Timber Piles Driven, Treated	1.50	004	600.00	537	805.50	137	205.50		
53.	Steel "H" Piles Furnished & Driven	10.00	210	2,100.00	202	2,070.00			~	30.00
去	Wet Excavation	10.00	108	1,080.00	34.9	349.00			73.1	731.00
55.	Class "X" Excavation	20.00	3	00.09	10.6	212.00	7.6	152.00		
				40,257.50		41,719.00		2,212.50		761.00



30.00

3.00

0.3

541,80

602

721,80

802

180,00 10.00

200

120

3.00 0.90

Payed Side Ditch, Type "A"

Sadding

10

Culvert End Sections 18" Culvert End Sections 12"

Inlets, Type P-12

30

425.00

2.00 12.00 68.75

0.7

1.0 0.10

10,00

Furn. & Placing Ayr. Limestone

Furn. & Placing Pertilizer

Furn. & Placing Seed

Painted

7 52.

0.10

12.00 68.75

20.00

55

55

330,00

110

425,00

INDIANA STATE HIGHWAY COMMISSION CONSTRUCTION RECORD

State Form 3952

COMPARISON OF ESTIMATES -- ORIGINAL AND FINAL PROJ. NO.I-100-1(1)0

STR. NO. 100-1-1111 ORIGINAL ESTIMATE

FINAL ESTIMATE

00. 49

16

4.50

100.00

400.00

100.00

115.40 92,00 52.50

N

92.00

62.50 425.00 360.00

116.40

4.85 00.54 62.50

12"

30 方 2

10.00

50.0d

Bit, Mat'l for Prime Coat

Pipe: Group "A" Pipe: Group "J"

20.

3.00

0.3 0.5

900.009

60.0 150.0 2.00

00.01

Bituminous Surface

12.

Bituminous Base

1,350,00 00.00 900.00

9.00

37:10

53

09.424

578

437.50

525 17 099

0.70

00.4

68,00

3,300,00 603.00 1,354.50

650 50.3 150.5 2.00 04

3,300.00

5.00

00.4

"B" Borrow for Structure Backfill Type "?" Compacted Argregate Base

Common Excavation

AMOUNT UNDERRUNS

QUANTITY | AMOUNT OVERRUNS

AMOUNT

QUANTITY

AMOUNT

QUANTITY

PRICE

CONTRACT ITEMS

ġ

CONTR. FC RM 1C 642 RFV 4:12 61 5W 8-80

ACCESS ROAD #1 OUANTITY !

Net Overrun = \$620.90 = 8.1253

31.50 717.90 60.00 31.50 100.00 1.00 240 7,042.15 100,001 90.09 1.00 240 0 0.29 2.10 00.00 X Common X Furn. & Placing Mulching Mat'l Additional Excavation (3 Line



RECORD OF CONSTRUCTION

Each contract should have either a Form 1C. 654 prepared for each project or bridge in the contract.

Each form should show the name of the Project Engineer or Inspector who supervised the principal part of the work.

Under Source of Materials it is important that the mill, pit, or quarry can be located as well as the name of the producer shown.

Any new, experimental, or unusual feature of the contract should be shown. A separate sheet of plain paper can be added if necessary.

In the upper right portion of Form 1C 654 the principal items in the contract are to be listed. Their costs per mile and costs per square yard are to be computed as they are applicable. On bridge widening contracts the unit prices only should be shown. This part of the form need not be completed for bridge painting or mowing contracts.

On mowing contracts, acreage instead of miles, should be shown.

On bridge painting contracts the source of the paint and number of costs should be shown on the bottom part of Form 1C 654.

For bridges that are a part of an "R" contract, only the upper left part of the 1.C. 654 needs to be filled out. This is also true of "B" contracts that are for "bare bridges". On bridge contracts with approach pavement the bottom portion of the form should be completed also.

In computing the cost per mile for grading, pavement, and structures, include the items that are grouped together in the itemized proposal. Do not include bridge items in the structure items.

Separate forms need not be made for Access Roads. These quantities should be included with other road quantities.

A 'Major' item is any item that is in excess of 5% of the total contract, excluding lump sum items.



I.C. 654 State Form 22614 Rev. 5/72 Replaces I.C. 654A & M-269	RECORD OF CONSTRUCTION	33
CONTRACT NO. I-0000 STR. NO. LOCATION N. Main St. in Miami	011 4/0 00	SYD.
Street North 1,00 Miles, COUNTY Indian ROAD NO. 100 SEC. AWARDED 2 January, 1959 COMPLETED 1 October, 1959 CONTRACTOR General Constructs	COST PER MILE (STRUCTURES) \$ 16,398.20	cost syp. 5.61 6.32
Company BONDED BY Corporation Corporation	3 5. "B" Borrow \$ 2.99 \$ 55,707.40 \$	5.16 1.65 3.30 0.45
PROJECT ENGR. John Doe INSPECTOR Robert Doe	7 13. Bit. Base \$ 9.00 \$ 19,719.90 \$ 8 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	1.55
AMOUNT OF 453,433,50	DONE # 475,911,79 DAMAGES # 200,00	

SOURCE OF MATERIALS (SPECIFIC LOCATIONS) If material is from different sources show station numbers for each source:

MATERIAL	COMPANY	SOURCE	STA. TO STA.
711 Stone	Hoosier Aggregate	Miami	Entire Job
M4 Stone	Hoosier Aggregate	Miami	Shtire Job
717 Sand	Hoosier Aggregate	Miami	Entire Job
AP 14	Standard Asphalt	Standard City	Entire Job
RC 70	Standard Asphalt	Standard City	Entire Job
MC 70	Standard Asphalt	Standard Ctiy	Entire Job

PAVEMENT	DATA	FIRST	ituminous Paveme SECOND	t THIRD	Concrete Fix	
TYPE OF COURSE		Aggregate	Bit, Base	Bit. Surfase	R.C. Concrete	
WIDTH		581	24'~6"	211	24"	
AREA (SYS.)						
THICKNESS		6"	4"	1"	10"	
SIZE AGGREGATE		2153	#4,	#111	14-1 5L	
	LBS. PER SYD.					
BIT, MAT'L, (GALS./L	8S. & SYD.)					
GRADE AND	PRIME	Me 70				
IND OF	IN COURSE		AP 4	AP 4		
BLT. MAT'L.	SEAL					
XPANSION	SPACING	None	CONTRACTION	SPACING	40'	
JOINTS	TYPE		JOINTS	TYPE	D-1	
	WIDTH					
REINFORCEMENT					12 x 6 Mesh	

SPECIAL REMARKS:

SUBMITTED BY: PROJ. ENGR. SUPVR. OH INSPECTOR

APPROVED BY: VILL EXES
DISTRICT ENGINEER

12/3/69 DATE



I.C, 654 State Form 22 Rev. 5/72 Replaces I.C, 654A & M-269	614	RECORD OF CO	HWAY COMMISSION ONSTRUCTION		84
PROJECT NO. I-100 CONTRACT NO. I-0000 STR NO. 100-1-1111 LOCATION N. Hain St Creek, 0.5 mile No COUNTY Indian ROAD NO. AWARDED 2 Janua	. in Riami o	ver Jquaw co Street co	NGTH ACTUALLY BUILT_ ST PER MILE (ALL ITEMS) ST PER MILE (PAVEMENT) ST PER MILE (GRADING) ST PER MILE (STRUCTURE	\$N \$ \$ (S) \$	
COMPLETED 31 Octobe CONTRACTOR General Company BONDED By Constructi Corporation	er, 1969 Construction on Insurance Doe oe	2 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	S
			show station numbers for each		
PAVEMENT DATA	FIRS	T SECO	ND THIRD	FOURT	H
TYPE OF COURSE WINDTH AREA (SYS.) THICKNESS SIZE AGGREGATE LBS. PER BIT. MAT'L. (GALS./LBS. & SYC GRADE AND PRIME KIND OF IN COI BIT. MAT'L. SEAL EXPANSION SPACII	JRSE	CONTRAC			
WIDTH REINFORCEMENT SPECIAL REMARKS:		JOHNS			
SUBMITTED BY: PROJ EN	LA SUR GR. SUPVR. OR INS	SPECTOR .	APPROVED BY: Jac	DISTRICT ENGIR	NEER 12/3/69



RECORD OF COMPLETION AND ACCEPTANCE

This form summarizes a number of pertinent dates for the contract. One copy is to be prepared for each contract.

The line for the date that the surface was completed applied to main line surface of either bituminous or concrete surfaces.



Form I.C. 635 REV. 1957

1M 10-77

STATE HIGHWAY DEPARTMENT OF INDIANA

DISTRICT ENGINEER'S REPORT OF FINAL INSPECTIONS

CONTRACT I-0000 PROJECT NO. 1-100-1(1)0

ROADS AND MAINTENANCE SECTIONS	100 -51	
	1.000	
LENGTH-MILES		/-
DATE LAST PAVEMENT WAS LAID.	30 September	19 ⁶⁹
DATE ENTIRE PROJECT OPENED TO TRAFFIC	31 October	19 69
VARIATIONS IN PAVEMENT SURFACE REMOVED	30 September	19 ⁶⁹
JOINTS AND CRACKS SEALED	30 July	19 ⁶⁹
DATE LAST WORK PERFORMED	31 October	19_69
WORK INSPECTED AND FOUND SATISFACTORY BY	Bruce Doe	
	on 31 October	19 69
CENTRAL OFFICE LETTER OF ACCEPTANCE DATED.	f Nauarham	19 69
*DATE CEMENT CONCRETE PATCHING COMPLETED		19
*DATE CONCRETE WIDENING COMPLETED	1 August	19 69
*DATE JOINTS SEALED	30 Ju ly	19 ⁶⁹
*DATE BITUMINOUS UNDERSEAL COMPLETED		19
*DATE BINDER COMPLETED	16 September	19 ⁶⁹
*DATE BITUMINOUS SEAL COMPLETED		19
*DATE BITUMINOUS SURFACE COMPLETED	30 September	19 69
*DATE 30-DAY MAINTENANCE REQUIRED ON ROCK AS	PHALT SURFACE	
EXP	IRED	19

Items indicated by * only when applicable to the Contract



LIQUIDATED DAMAGES

This form provides a place for systematic computation of liquidated damages, if any apply to a contract. Only one form is necessary for each contract.

This form provides space for computing contract completion data for 'Work Day," "Calendar Date," and contracts with "Intermediate Completion Time." The line labeled "Additional Days/Time/Date Approved" is to be used in cases where time for added work is approved and the value of this work is greater than the proportion to the dollar value of the original contract. This can only be approved by letter from the Chief Highway Engineer, and it must have the concurrence of the Federal Highway Administration on participating contracts. (Except Secondary Projects)

The percent of overrum is that percent shown at the bottom of the last 1C 642 sheet for the entire contract. Note that the percent overrum does not apply to the "Intermediate Completion Time" unless specifically provided for in the Special Provisions.

The amount of liquidated damages to be charged per day for Work Day, Calendar Day, and Fixed Date Contracts is shown in Article 108.07 of the Standard Specifications. The amount of liquidated damages to be charged per day on Intermediate Completion Time contracts is provided for in the Special Provisions.

When computing extensions on Calendar Date Contracts, additional days may be entered on the "Delay in Issuing the Notice to Proceed" line only when you receive written authority from the Contracts Engineer. Section 108.06 of the Specifications states that an extension to the contract completion date will be allowed if the Notice to Proceed is not issued within 20 days of the Letting and the delay is not due to the failure of the contractor to provide requested forms or information. On the "Contract Overrun" line, it is noted that the number of days to be used in computing the number of overrun days, is the number of days starting with the day after the Letting, to and including the original completion date.

Occasionally, we have contracts that are to be completed within a specified number of CALENDAR DAYS. Computations should be made in the space provided for "Calendar Date Contracts," except that the line "Delay in Issuing Notice to Proceed" will not apply on Calendar Day contracts.

The Intermediate Completion Time is always in combination with one of the other types of completion dates. Care must be taken not to confuse the computation of each type.

When the District receives written authority to extend or revise the completion time on a contract, and this extension or revision does not follow the standard formulas set out on Form 1C 632, then appropriate references must be entered on the 1C 632, so that any reviewing personnel may easily follow the new calculations.



Explanation Sheet for 1.C. 632 (Continued)

If liquidated damages are to be assessed for one or more types of completion dates, entries are to be made on the appropriate line under "Liquidated Damages To Be Assessed" and a grand total of all damages is then transferred to the progress or final estimate as a lump sum figure.

Appropriate examples of this form follow this explanation sheet.



Page 86

I.C. 632 2M 9 80

Rev. 5/75 COMPLETION DATE & LIQUIDATED DAMAGES DATA

J-100-1100		J.	- 0000
Project Number	Structure Nu	mber	Contract Number
		e of First Work	JAN. 70,1969
Award Date JAN	1,2,1969 Date	e of Last Work	ar. 31,1969
Notice To Proceed Date JAK	13,1969 con	ntractor GENERAL CON	STRUCTICAL CO.
FOR WORK DAY CONTRACTS:			10.0
Work Days Allowed			
Contract Overrun (4.96 %)	X / IDO (No. of Work Days	 	
Additional Days Approved		· · · · · · · · · · · · · · · · · · ·	days
Total Work Days Allowed			105 days
Number of Work Days Us	sed		days
Number of Work Days O	ver		5days
FOR CALENDAR DATE CONTRACTS	\$:		
Contract Completion Date			
Delay in issuing Notice To Proceed			days
Contract Overrun (and including the Original	
Adjusted Calendar Completion I	Date		
Actual Calendar Completion Da	te		
Number of Calendar Days	s Over		days
FOR IMMEDIATE COMPLETION TIM	E: (Open to traffic, roa	ad closure, traffic restriction)	
Original Intermediate Completion Time	e (from Special Provisions	s)	days/date
Contract Overrun (%)	X (See Special Provision	ons)	days
Additional Time or Date Approved			days/date
Adjusted Intermediate Complete	on Time		days/date
First day of Closure or F	Restriction		
Last day of Closure or Re	estriction (Open to Traffi	ic)	
Number of days us	sed		
Number of days or	ver		
LIQUIDATED DAMAGES TO BE ASS	ESSED:		
Work Day Contracts.	5 days @ \$_14	10 /day =	s 700.00
Calendar Date Contracts:	days @ \$	/day =	\$
Intermediate Completion Time:	days @ \$	/day =	\$
		TOTAL	s 700.00
	31,1969	Q. 1	Λ
District Review by. HALLY MA	MY	Valle	RICT ENGINEER
FOR CENTRAL OFFICE ONLY	*************	**************************************	
Date Review Completed:			
Reviewed by:			
		ENGINEER OF	OFFICE ADMINISTRATION



	the transmission of the second	(7)
I.C. 632 2M 9-80		$\times7$
Rev. 5/75 COMPLETION DATE & LIQUIDA	ATED DAMAGES DATA	Page Page
I-100-1(1)0	TIED DAMAGES DATA	
	ture Number	1-0000
Letting Date Dec. 17,1948		Contract Number
Award Date JAN 2, 1929	Date of First Work	JAH 20,1969
1. 2	Date of Last Work	CCC 31, 15x.9
	Contractor JEWGRAL	LONSTRUCTION CO.
FOR WORK DAY CONTRACTS: Work Days Allowed		
		days
Additional Days Approved	k Days)	days
Total Work Days Allowed		days
	* * * * * * * * * * * * * * * * * * * *	days
Number of Work Days Used	• • • • • • • • • • • • • • • • • • • •	days
Number of Work Days Over FOR CALENDAR DATE CONTRACTS:	• • • • • • • • • • • • • • • • • • • •	days
Contract Completion Date		Oct 10,1969
Dol		^
101 201		days
Contract Overrun (days
Additional Time or Date Approved		NONE
Adjusted Calendar Completion Date		Det 24, 1969
Actual Calendar Completion Date		CCT. 31, 1969
Number of Calendar Days Over		7days
FOR IMMEDIATE COMPLETION TIME: (Open to traffic	c, road closure, traffic restriction	n)
Original Intermediate Completion Time (from Special Prov	isions)	days/date
Contract Overrun (%) X		days
(See Special Pro	ovisions)	·
Adjusted Intermediate Completion Time		days/date
First day of Closure or Restriction		days/date
Last day of Closure or Restriction (Open to T		
Number of days used		
Number of days over		
LIQUIDATED DAMAGES TO BE ASSESSED:	• • • • • • • • • • • • • • • • • • • •	
Work Day Conserve		
7	/day = /////day =	5
Inches to the second se		s
Intermediate Completion Time: days @ \$	/day =	\$
Date Review Completed 26 31, 1969	TOTAL	s
hetrice Rayon by HARRY MALL	Pin	$Q_{i,j}$
THINK I	- JKILL	DISTRICT ENGINEER
OR CENTRAL OFFICE ONLY	**********	**************
ate Review Completed:		
eviewed by:		
	ENGINEER	OF OFFICE ADMINISTRATION



ENGINEER OF OFFICE ADMINISTRATION

		88
I.C. 632 2M 9-80 Rov. 5/75 COMPLETION DATE & LIQUID	DATED DAMAGES DATA	Page 100
		0000
I-/O-/()O Project Number Stri	acture Number	Contract Number
2		
Letting Date	Date of First Work	JAN 20,1969
Award Date JAN 2,1969	Date of Last Work	Oct 31,1969
Notice To Proceed Date JAN 3, 1969	Contractor ETENCRAL (E)	NISTRUTION CO.
FOR WORK DAY CONTRACTS:		
Work Days Allowed		days
Contract Overrun (%) X	ork Days)	days
Additional Days Approved	ork Days)	days
Total Work Days Allowed		days
Number of Work Days Used		days
Number of Work Days Over		days
FOR CALENDAR DATE CONTRACTS:		A 10 10 -
Contract Completion Date		OCT 10, 1969
Delay in issuing Notice To Proceed		days
Contract Overrun (4.96%) x 28	<u>· /·</u>	
 Number of days starting with the day after the L Completion Date 	etting, to and including the Original	1/2 c
		NONE
Adjusted Calendar Completion Date , ,		Ca 29, 1969
Actual Calendar Completion Date		<u>cer 31, 1969</u>
Number of Calendar Days Over		days
FOR IMMEDIATE COMPLETION TIME: (Open to to	affic, roud elosure, traffic restriction)	
Original Intermediate Completion Time (from Special	Provisions)	days/dat
Contract Overrun (%) X	il Provisions)	D. N. A. days
Additional Time or Date Approved		days/dat
Adjusted Intermediate Completion Time		days/dat
First day of Closure or Restriction		JULY 7,1969
Last day of Closure or Restriction (Open		OCT. 8, 1965
Number of days used		94
Number of days over		4
LIQUIDATED DAMAGES TO BE ASSESSED:		
Work Day Contracts: days	0 \$/day =	4
Calendar Date Contracts:	s 100,00 day =	. 700,00
1.	\$500.00 day =	= 2000 M
Intermediate Completion Time: days @		2.700.00
No. 31 10/0	TOTAL	3
Date Review Completed 18604 Addish	- < Yu 110	(6100
District Review by: THILKY MINN	DIST	RICT ENGINEER
FOR CENTRAL OFFICE ONLY	*********************	i
Dan Dawar Caraclased		



Form M-39 Nov. 1946 3M 6-77	2M 1-80		
	T 0000		n . 21 Don
Contract No.	I-0000		Date 31 Dec. 1969
	CONTRACTOR'S INSPECTION	N OF FINAL CONSTRUCTI	UN RECORD REPORT
Paul Jones District Eng P. O. Box 10 Indian Creek	00		
No. <u>I-0000</u>	3	e Final Construction nat the quantities ar	
		tal Work Done is ss Liquidated Damages	
		Net	\$475,211.79
contract by	Having reviewed the completion date I here 5 days 3 \$140 = \$700 or	•	arges are acceptable.
	7 days @ \$100 = \$700	(Calendar Day Complet	cion)
		Signed	-17
		Title Pres	
		Company Ger	neral Construction Co.
1 - Construct 1 - Contract			

State Form 2604

1 - District File



PROPERTY RELEASE

The General Instruction for Field Employees states that this form must be secured from all property owners where debris, such as stumps, is wasted. Releases are also required from owner's of Borrow Pits, plant sites, haul roads, or where for any other reason the Contractor has worked outside the permanent or temporary right-of-way in connection with the project.

Property releases protect the Contractor as well as the State. In any case where a property owner refuses to sign a release without further work or compensation from the Contractor, two careful checks should be made by the Project Engineer. The first check should be that our Specifications and plans have been complied with and the second check should be to determine if any agreement, written or implied, with the land owner, has been satisfied. If it is found that both of these contracts have been fulfilled, with the owner still refusing to sign a release, the unsigned release should be placed in the record with the Project Engineer's statement that the property in question was left in satisfactory condition. Either the Area or District Construction Engineer must also sign the Project Engineer's explanation waiving the release.



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Form 1.C. 149 Rev. 1962

INDIANA STATE HIGHWAY COMMISSION

PROPERTY RELEASE FROM LANDOWNER FOR DISPOSAL OF TREES, STUMPS, CONCRETE, OR OTHER UNSUITABLE MATERIAL AND/OR BORROW PIT RELEASE.

CONTRACT NO	I-0000	Miami	, Indiana
PROJECT NO	I-100-1(1)0	31 October	, 1969
STRUCTURE NO.			
MEXXXX	I), the undersigned, ************************************	's (or owner) of land a	long
State Highway	No. 100 , from Station	9+90 to Station	26+40
adjacent to th	ne above noted contract, co	onstructed by Genera	ıl
Construction (hereby state that	my property has been 1	eft in a
satisfactory o	condition and I release the	Contractor from any o	laim for
use or damage	to said property.		
	(\$	owner , San	Lea
		owner , gain	i dolles

Copies to:

Project Engineer District Engineer Property Owner Contractor

Note: The Project Engineer's copy to be incorporated in the Construction Record.



Explanation Sheet 1.C. 728

Final payment to a contractor will be made within 180 days after acceptance of the project. Acceptance is considered as the date the contractor is relieved of further maintenance as set out in the final acceptance letter.

If the final payment is not made within 180 days of final acceptance, the contractor will be paid interest at a rate by the state legislature on the unpaid balance.

The 1C 728 is a list of pertinent dates for the computation of interest due the contractor, if any. This form should be completed by the District and enclosed at the back of the Final Construction Record and sent to the central office.

Any explanation of dates that is necessary can be put in the Remarks sections.



I.C. 728

CONTROLLING DATES IN FINAL ESTIMATE PREPARATION FOR COMPUTING INTEREST DUE THE CONTRACTOR



5M 11-74

PROJECT NO. 1-100-1(1)0 STRUCTURE NO. 100-1-1111	CONTRACT NO.	
DATE OF ACCEPTANCE	5 November	19_ <u>69</u>
PRELIMINARY QUANTITIES TO DISTRICT	15 November	19_69
CONSTRUCTION RECORD TO DISTRICT	5 December	19_69
FINAL QUANTITIES TO LABORATORY	9 December	19 69
DISTRICT MATERIAL CERTIFICATE TO LABORATORY	16 December	19_69
MATERIAL CERTIFICATE RECEIVED	28 December	19_69
RECORD READY FOR CENTRAL OFFICE (NOT INCLUDING M-39)		19_70
M-39 SENT TO CONTRACTOR		19_69
M-39 RECEIVED FROM CONTRACTOR		19_70
CONTRACTOR CONTROLLED TIME LOSS		DAYS
RAILROAD INDEBTEDNESS CLEARANCE RECEIVED	DNA	19
INCREASED TIME LOSS		DAYS
DATE OF CONCRETE CORE REPORT	14 January	1970
DATE REPLACEMENT COMPLETED (IF ANY)		19
INCREASED TIME LOSS	***************************************	DAYS
DELINQUENT RECORDS (IF ANY) RECEIVED		19
INCREASED TIME LOSS.		DAYS
TOTAL CONTRACTOR CONTROLLED		
TIME LOSS		DAYS
CONSTRUCTION RECORD TO CENTRAL OFFICE	1 February	19_70

*NOTE:

NORMALLY NO CONTRACTOR CONTROLLED TIME LOSS SHALL BE CHARGED PRIOR TO THIS DATE.



DOCUMENTATION OF ALTERNATE BID ITEMS

When alternate bid items are used in lieu of regular bid items, a Change In Plans, Form I.C. 626 must be prepared. The I.C. 626 should show the deletion of the regular bid item and the addition of the respective alternate item. The letter "A" should be placed after the item number of each alternate item being added. See Sample "A".

The Progress Estimate, Form DAC-25, should also reflect the alternate bid item as an entirely new entry. The line item number of the alternate bid and the regular bid item should be the same number; however, an "A" should be placed behind that of the alternate bid. Note that the quantity of the regular bid item should equal zero (0) when alternate items are used. See Sample 'B".

When preparing the Final Construction Record, Form I.C. 627 should show the regular as well as the alternate bid quantity. A note signed by the Project Engineer to the effect that Federal participation is limited only to the regular bid price should also appear on this Form. This will assist in assuring the proper release of funds for final billing. See Sample "C".

When the Comparison of Estimates, Form I.C. 642, is complied, both the regular bid items and the alternate bid item should be listed on the "Total" sheet. If the contract is broken down into 90/10, 70/30, and 100% State funding, the breakdown must reflect both alternate and regular bid items. As illustrated on the attached Sample Sheets D, E, and F; the regular and alternate bid item will appear on the 90/10 breakdown at the regular bid price and the difference between the two, will appear on the 100% State breakdown.

The Comparison of Estimates, Form I.C. 642, showing the funding breakdown will be the only place where the alternate bid item will be broken down to reflect the actual cost of the participating and non-participating amounts.



Form I.C. 6 Rev. 5-27-6 3M 8-74	8	INDIAN MENDED CH	IA STATE		WAY C	OMMISSION ERIALS OR		ITIES	
I-	-FI Proj.	465-5	Sec.	(193)106	(Contract 1	No.	
	owing change is	recommended	1. (Give lo	cation, d	escriptio	on and reason	.)		
*reder	al particip	ation limit	ed only					ann an	
	CONTR	ACT ITEM		UNIT	QUANT.	AMT.	QUANT.	CREASE AMT.	% OF CHANGE
#2.	400 Watt Ro	adway Lumin	aire	170.00			30	5,100.00	100
#4.		derpass Lum		300.00			15	4,500.00	
<i>#</i> 5.	250 Watt Si			140.00			90	12,600.00	
#2A.	400 Watt Ro	adway Lumin	aire	190.00	30	5,700.00			100
#4A.	150 Watt Un	derpass Lum	inaire	350.00	15	5,250.00			100
#5A.	250 Watt Si	gn Luminair	е	150.00	90	13,500.00			100
THIS CHA	ANGE XXXX	RESULTINAC	IIMIII ATIVE	TO	TALS	24,450.00		22,200,00	
CHANGE THE ORI	ANGE DOES NOT OF 20% TO ANY I GINAL CONTRAC	TEM CONSTITUT	ING 5% OF	NET	NCPT AKCEN			T\$ 2,250.	
Signed _				Title	-		Date		
Notifica	tion and conser	nt to this chan	ge in plans	is hereby	/ acknow	vledged.			,
Contract	tor			Ву			Date		
Investiga	ated and the fol	llowing recom	mendations	made:					
Ву				Title			Date		
Recomm for Appi Authoria	roval					ct Engineer			
	horized			Title			Date	5-1-7	3



Form DAC - 28 Approved by State Board of Accounts 1968

INDIANA STATE HIGHWAY COMMISSION

92-2

SAMPLE "B"

CONTRACT INVOICE-VOUCHER And PROGRESS ESTIMATE

PAGE

CONTRACTOR'S NAME

ADDRESS

FOR WORK DONE
LOCATION CODE
FUNCTION CODE
OBJECT CODE
COST ACCT.
CONTRACT NO,
ESTIMATE NO,
PROJECT NO.
COUNTY

WARRANT NO.			_
PURCHASE ORDER NO.			_
DATE OF P.O.	-		
CURR. YR. UNLIQ. BAL.			
TOT. UNLIQ. BAL.			
APPRO. ACCT. NO. (800)			
APPRO. NAME			
STATE SHARE			
FEDERAL SHARE			
TOTAL DISBURSEMENT			
AMT. PAID			
AMT. LIQ.			
STATE	DEBIT BLACK	CREDIT - RED	_
FFOFFALL			-

LTEMS OF CONTRACT		QUANT			UNIT		PRICE	EXTENSIO	
	THIS	EST.	TOT	DATE		DOLS	CENT	DOLS	CNTS
OCOL GUARD RAIL TYPE DS (MODIFIED)			100	0000		20	00000	2000	00
0002 ROADWAY LUMINAIRE: 400 WATT		 		0000	 		00000		00
HIGH PRESSURE SODIUM		1					-		
LUMINAIRE									
0002A ROADWAY LUMINAIRE: 400 WATT			30	0000		190	00000	5700	00
HIGH PRESSURE SODIUM G.E.									
STYLE M-400 (SEE 1.C. 626									
DATED 5-1-78)									!
0003 OVERHEAD SIGN REMOVAL			10	0000	1	150	00000	1500	00
0004 -UNDERPASS LUMINAIRE: 150 WATE			0	0000		300	00000	0	00
HIGH PRESSURE SODIUM LUMI-									
NAIRE FOR PIER CAP MOUNTING									
WITH VANDAL SHIELD									
0004AUNDERPASS LUMINAIRE: 150 WATT			15	0000		350	00000	5250	00
HIGH PRESSURE SODIUM LUMI-									
NAIRE FOR PIER CAP MOUNTING									
WITH VANDAL SHIELD G.E.			1						
WALLIGHTER WL-250 (SEE 1.C.									-
626 DATED 5-1-78)									<u> </u>
0005 SIGN LUMINAIRE: 250 WATT				0000		140	00000	0	00
MERCURY VAPOR LUMINAIRE WITH		ļ							
GLARE SHIELD									
QQQ5A SIGN LUMINAIRE: 250 WATT			90	0000		150	00000	13500	00
MERCURY VAPOR LUMINAIRE WITH		-							
GLARE SHIELD G.E. WALLIGHTER					-				
WL-250 (SEE 1.C. 626 DATED					-				
5-1-78)							20000	100	00
OOC' RECTANGULAR POSTS			60	0000			00000	180	00
									-
									-
		-							
					-				
OVERRUN OF PROPOSAL QUANTITY		-							



SAMPLE "C"

92-3

Form 1. C. - 627A REV. 3-62

INDIANA STATE HIGHWAY COMMISSION

CONSTRUCTION RECORD

I-FI	PROJECT	465-5	SECTION	(193)	106	CONTRACT NO. RT-200	000
2. ITEM_2A.	400 V	Vatt Roadway Vatt Roadway	Luminaire	G.E. Sty	/le M-40		
OVERRUNA		AT 8	•	UNDER	RUNS	AT 8	
STATI	ONS	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER-	REMARKS	PAG
	*****	30	0		30	Item #2	
		.0	30	30		Item #2A.	
						See I.C. 626 dated 5-1-78	3
		used in lieu Federal part	lternate bid of the regularization is arly bid pri	larly t	were id item d only	S.	
				Ofen	Doe	/	
				1			
							-



INDIANA STATE HIGHWAY COMMISSION

SAMPI

TOTAL CONTRACT

CONSTRUCTION RECORD

COMPARISON OF ESTIMATES — ORIGINAL AND FINAL

FORM IC 662 REV 6-13 61 ZM 3-76

CONTR. NO. RT-20000 PROJ. N	OMPARISO	65-5(193)	PROJ. NO. 1-FT-465-5(193)106 STR. NO.	RIGINAL A	ND FINAL	1			
de company and a company of	Live	ORIGINA	ORIGINAL ESTIMATE	FINAL	FINAL ESTIMATE	OVE	OVERRUNS	CND	UNDERRUNS
CONTRACT ITEMS	PRICE	OUANTITY	AMOUNT	QUANTITY	AMOUNT	OUANTITY	AMOUNT	OUANTITY	AMOUNT
1. Guard Rail Type D _s (Modified)	20.00	100	2,000.00	100	2,000.00				
2. Roadway Luminaire: 400 Watt High	170.00	30	5,100.00	0	00.00			8	5,100.00
Pressure Sodium Luminaire									
2A. Roadway Luminaire: 400 Watt High	190.00	0	00.00	8	5,700.00		5,700.00		
Pressure Sodium G.E. Style M-400									
3. Overhead Sign Removal	150.00	10	1,500.00	10	1,500.00				
4. Underpass Luminaire: 150 Watt High	300.00	15	4,500.00	0	00.00			15	4,500.00
Pressure Sodium Luminaire For Pier									
Cap Mounting With Vandal Shield									
4A. Underpass Luminaire: 150 Watt High	350.00	0	00.00	15	5,250.00	15	5,250.00		
Pressure Sodium Luminaire For Pier									
Cap Mounting With Vandal Shield									
G.E. Wallighter WL-250									
5. Sign Luminaire: 250 Watt Mercury	140.00	90	12,600.00	0	00.00			06	12,600.00
Vapor Luminaire With Glare Shield									
5A. Sign Luminaire: 250 Watt Mercury	150.00	0	0.00	06	13,500.00	90	13,500.00		
Vapor Luminaire With Glare Shield									
G.E. Wallighter W250									
6. Rectangular Posts	3.00	09	180.00	09	180.00				



92-5

The difference in unit prices between Item #5 & 5A is the Non-Participating amount & is listed on the 100% State funding

shee.

Ē SAMPIT

INDIANA STATE HIGHWAY COMMISSION

90/10 FUNDING

COMPARISON OF ESTIMATES -- ORIGINAL AND FINAL CONSTRUCTION RECORD

> FORM IC 642 REV 4 13:61 2M 3-76

ŔŬ	2M 3-76 CONTR. NO. RT-20000 PROJ. N	NO.1-FT-4	PROJ. NO.I-FI-465-5(193)106	S	NO.		1			
L		FIND	ORIGINA	ORIGINAL ESTIMATE	FINAL	FINAL ESTIMATE	OVE	OVERRUNS	CND	UNDERRUNS
	CONTRACT ITEMS	PRICE	VITITANO	AMOUNT	GUANTITY	AMOUNT	OUANTITY	AMOUNT	QUANTITY	AMOUNT
2.	Roadway Luminaire: 400 Watt High	170.00	30	5,100.00	0	00.00			æ	5,100.00
	Pressure Sodium Luminaire									
X	2A. Roadway Luminaire: 400 Watt High	170.00	0	00.00	30	5,100.00	30	5,100.00		
든	Pressure Sodium G.E. Style M-400 The difference in unit prices between Ibem #2 & 2A is the Non-Participating amount & is listed on the 100% State funding sheet	tem #2 &	2A is the	Non-Partici	pating and	unt & is lis	ted on	the 100% St	ate fun	ling sheet
4	Undervass Luminaire: 150 Watt High	300.00	15	4 500 00	c	00 0			15	4 500 00
	Cap Mounting With Vandal Shield									
4A.	. Underpass Luminaire: 150 Watt High	300.00	0	0.00	1.5	4,500.00	15	4,500.00		
	Pressure Sodium Luminaire For Pier									
	Cap Mounting With Vandal Shield									
E	G.E. Wallighter WL-250									
4	ine difference in unit prices between item #4 6	cen #4 o	4A 1S the	4A is the Non-Participating amount & is listed on the 100% State funding sheet	pating amo	unt & is lis	ted on t	he 100% St	ate fim	ling sheet
5.	Sign Luminaire: 250 Watt Mercury	140.00	90	12,600.00	0	0.00			96	12,600.00
	Vapor Luminaire With Glare Shield									
5A.	Sign Luminaire: 250 Watt Mercury	140.00	0	0.00	90	12,600.00	06	12,600.00		
	Vapor Luminaire With Glare Shield									
į	G.E. Wallighter WL-250									



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PAGE

INDIANA STATE HIGHWAY COMMISSION SAMPI

100% State Funding

CONSTRUCTION RECORD

FORM IC 842 REV 4 13:61

ZONTR. NO. RT-20000 PROJ. N	O I-FI-	COMPARISON OF ESTIM PROJ. NO. I-FI-465-5(193)106	ATES-	STR. NO.	IND FINAL				
CONTRACT DEMS	TIMO	ORIGINA	ORIGINAL ESTIMATE	FINAL	FINAL ESTIMATE	OVE	OVERRUNS	UNDE	UNDERRUNS
	PRICE	OUANTITY	AMOUNT	QUANTITY	AMOUNT	OUANTITY	OUANTITY AMOUNT	QUANTITY	AMOUNT
2A. Roadway Laminaire: 400 Watt High	20.00	0	0.00	30	600.00	8	900.009		
Pressure Sodium G.E. Style M-400									
This unit price reflects the difference between the regular & alternate bid prices.	between	the regul	ar & alterna	te bid pri	ces.				
4A. Underpass Luminaire: 150 Watt High	50.00	0	0.00	15	750.00	15	750.00		
Pressure Sodium Luminaire For Pier									
Cap Mounting with Vandal Shield									
G.E. Wallighter WL-250									
This unit price reflects the difference between the regular	between	the regul	43	alternate bid prices.	es.				
5A. Sign Luminaire: 250 Watt-Mercury	10.00	0	0.00	96	900.00	90	900.00		
Vapor Luminaire With Glare Shield									
G.E. Wallighter WL-250									
This unit price reflects the difference between the regular & alternate bid prices.	oetween t	the regula	r & alterna	e bid pric	es.				



TRAFFIC ITEMS

Measurement and documentation of traffic items such as cables, luminaires and high mast poles will be handled in the same manner as pipe structures. The completion of form 1C 612B is not necessary. The quantities and location of cable and other traffic items may be kept as original notes in a field book or other appropriate ISHC form. If the original notes are not bound in the record itself, they must be cross referenced in the record.



FORM I. C.--627 Rev. 2-62 PAGE No. 6

10M 8-80	CONST	RUCTION		ORD		·-·
PROJ. NO. H.H.S. 147-	2(3)	R. NO			CONTRACT NO T- 12	20
ITEM 3 0/19 8	16NAC CA	HBLE			No6	
OVERRUNS AT 8		UNDI	RRUNS	A1	r s	
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BRIDGE DECK REPAIR ITEMS

Bridge Deck Repair items such as patching, surface seal, overlay and scarifying will be broken down by project in the final construction record. Pertinent original notes may be kept in a bound field book or on an appropriate ISHC form. Any original notes which are not bound in the record must be cross referenced in it.



FORM I. C.—827 Rev. 2-62						PAGE NO.	5
10M 8-80 3262		RUCTION			N		
	(A) 81	R. NO. 66- 67	-575	9 A	CONTRACT	NOB-117	29
ITEM BRIDGE DEL	K PATCH	NG				No 5	-
OVERRUNS AT 8		Unde	RRUNS	28	4.50	126	00
LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER- RUNS	RE	MARKS	PAGE
PROJECT: ST-3262B	1602	1556		46	BOOK	16F1	58
PRIKET: 57-5362 A	798	816	18		Book	lor 1	11
ENTIRE CONTRACT	2400	2372		28			-
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		SCAL				No. 6	
	OVERRUNS AT 8		Unds	RRUNS.	59_,	. 0.65 . 38.	35
	LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER- RUNS	REMARKS	PAGE
	PROJECT: ST-3267 B	2155	1916		239	BOOK for 1	48
	PROYET: JT-5367	1300	1480	180		BOOK IDE 1	15
	GNTRY CONTRACT	3455	3396		59		
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LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER-	REMARKS	PAGE
PEOSECT: ST-32628	733	736	3		BOOK 1 OF 1	53A
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Rev. 2-88 10M 8-80 3 2 6 2 ST PROJ. NO. 5 3 6 2 SECTION	CONST (B) N_(A)	RUCTION 66 - 62	REC	ORD	PAGE NO E	29
ITEM CEN (PETE	SCARIFYIN	16		047	No. 8	
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LOCATION AND DESCRIPTION	QUANTITY ON PLANS	QUANTITY PLACED	OVER- RUNS	UNDER- RUNS	REMARKS	PAGE
PROJECT: ST-3262B	1053	893		160	Book Loel	46
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FORM I. C,-627 Rev. 2-63

INDIANA STATE HIGHWAY COMMISSION

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10M 8-80 CONSTRUCTION RECORD 3262 (6) EL-62-5157A B-11729 ST PROJ. NO. 5367 NO. 66-62-56-99 A CAS CONCRUTE CARIFYII 1.50 . 196.50 OVERRUNS.... UNDERRUNS LOCATION AND QUANTITY ON PLANS PLACED UNDER-OVER. REMARKS PAGE RUNS PEOSECT: ST-3262B 47 40 183 232 1 OF Brok LOF 1 PEGIVES ST-5362A 120 120 ENTIRE CONTRACT 303 232 PROS' 3262! EXTENSIVE ANDITIONAL SCARIFICATION WAS REQUIRED TO PEDUCE THE HEIGHT OF EXCESSIVELY HIGH AREAK EN THE DECK THESE AREAS WOULD HAVE CAUSED THIN SPOTS IN THE CUERLAY TICLEFORE THEY wake REMOTED 5262: NO ADDITIONAL SCHEIFICATION WAS REQUIRED 1941.

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FORM I. C.-627 Rev. 2-62

INDIANA STATE HIGHWAY COMMISSION

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10M 8-80

3262 <u>37</u> PROJ. NO. <u>5362</u> SECTION	CONST	RUCTION 66-62 R. No. 66-62	-5757 -5757	QRD 2A	CONTRACT NO B-11	129
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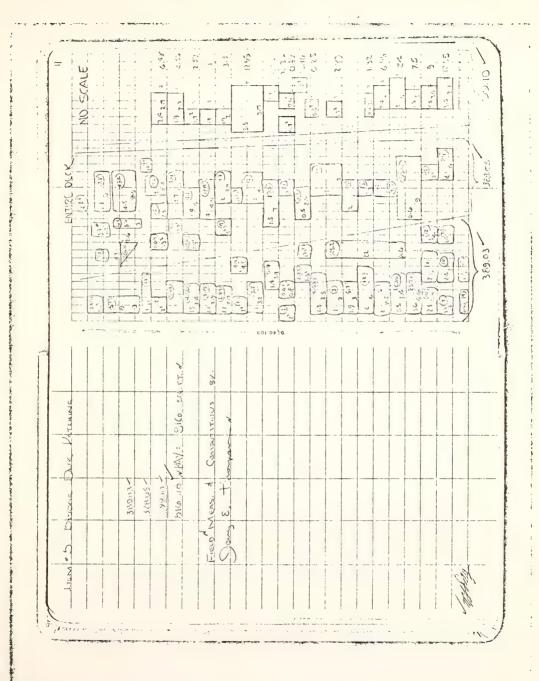


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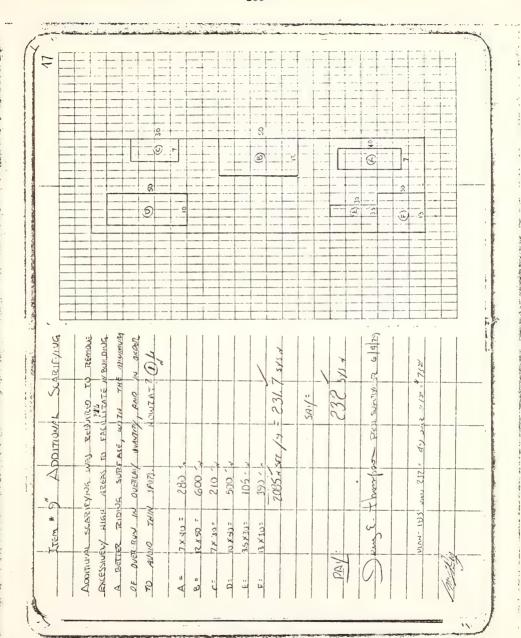




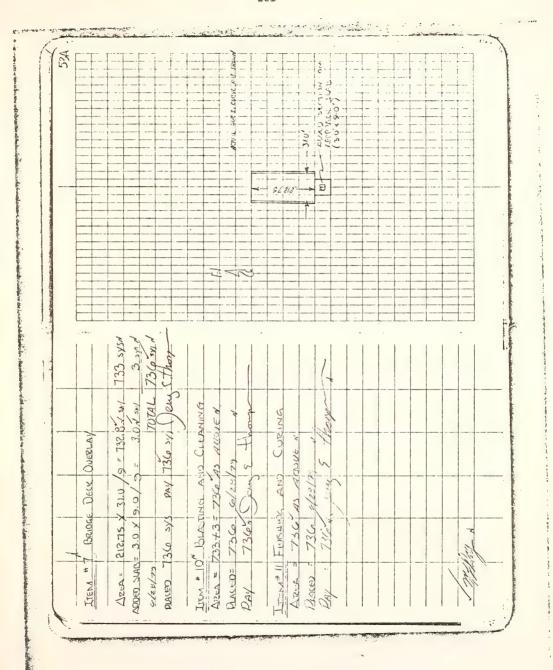


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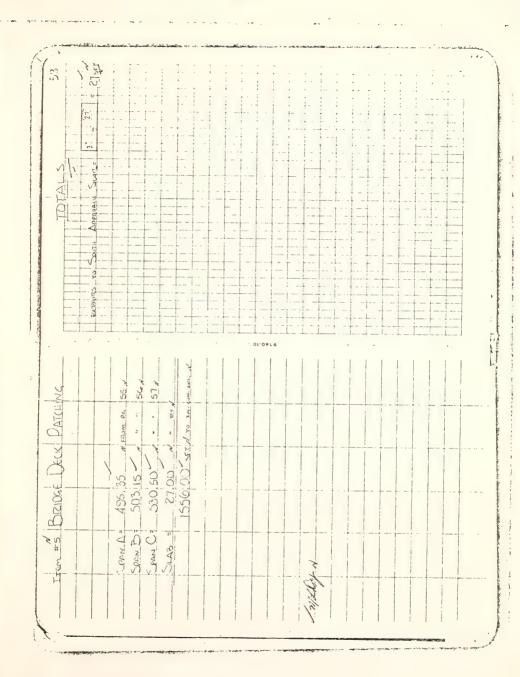














DATA FOR COMPUTING B BORROW

This section of the Manual as indicated in the Index consists of two diagrams and 108 Tables for determining B Borrow quantities (backfill). These pages are <u>not</u> included in this copy of this report as they were not changed. Copies are available if desired from:

Joint Highway Research Project Civil Engineering Building Purdue University West Lafayette, Indiana 47907

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